

4101 Woolworth Avenue  
Omaha, Nebraska 68105

1. THE CONTRACTOR SHALL INSPECT THE SITE, STUDY EXISTING CONDITIONS, REVIEW DRAWINGS AND SPECIFICATIONS.
2. CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. THE CONTRACTOR SHALL TAKE ALL MEASUREMENTS FOR THE WORK AND BE RESPONSIBLE FOR SAME. COORDINATE THE WORK AND SHOP DRAWINGS.
4. ALL UTILITIES AND SERVICES SHALL BE KEPT IN CONTINUOUS OPERATION UNLESS WRITTEN PERMISSION IS OTHERWISE OBTAINED FROM THE OWNER.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AREAS OF THE PROJECT BY THIS CONTRACTOR SHALL MAINTAIN SO THAT ALL BUILDING SERVICES ARE MAINTAINED WITH MINIMUM INTERRUPTION. SCHEDULE ALL ELECTRICAL/MECHANICAL OUTAGES 7 DAYS IN ADVANCE WITH THE OWNER.
6. PROTECT ALL WORK MATERIALS AND EQUIPMENT. CAP OR PLUG TEMPORARY OPENINGS.
7. ALL OCCUPIED WORK AREAS, BUILDING CORRIDORS AND EXTERIOR AREAS SHALL BE KEPT CLEAR OF DEBRIS, CUTTING AND PATCHING OF EXISTING WALLS, FLOORS OR CEILINGS REQUIRED BY NEW WORK SHALL INCLUDED AS WORK.
8. PROTECT EXISTING WORK.
9. CUTTING SHALL BE DONE WITH CARE SO AS NOT TO DAMAGE EXISTING EQUIPMENT, CONNECTIONS, CONTROLS, ETC. DAMAGE CAUSED BY SUCH CUTTING SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION BY CONTRACTOR.
10. NO COATING TO BE DONE.
11. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE BEST QUALITY AND FREE FROM DEFECTS.
12. THE WORK SHALL COMPLY WITH APPLICABLE REGIONS, CODES, AND STANDARDS.
13. THE CONTRACTOR SHALL PERFORM ALL TESTS AND SPECIFICATIONS AS NECESSARY TO DEMONSTRATE A COMPLETE AND SATISFACTORY INSTALLATION.
14. EXPOSED PENETRATIONS THROUGH EXISTING ROOFS, FLOORS, AND WALLS SHALL BE PATCHED WITH LIKE MATERIALS TO MATCH THE SURROUNDING SURFACES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING MATERIALS RESULTING FROM WORK UNDER THIS CONTRACTOR SUCH AS TO ITS ORIGINAL CONDITION.
16. THE CONTRACTOR SHALL WORK WITH THE CONDITIONS AS THEY EXIST AT THE SITE.

B. IF THE CONTRACTOR ENCOUNTERS MATERIAL THAT COULD BE HAZARDOUS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY FOR DIRECTION.

VA DESIGN DIRECTIVES AND GUIDELINES  
INTERNATIONAL BUILDING CODE, 2012  
NFPA 101, LIFE SAFETY CODE, 2012  
NFPA NATIONAL FIRE CODES  
NATIONAL ELECTRICAL CODE  
NATIONAL STANDARD PLUMBING CODE  
ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) AND VA SUPPLEMENT  
BARRIER FREE DESIGN GUIDE

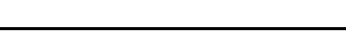
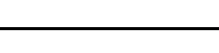
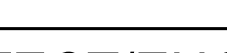
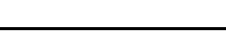
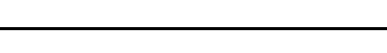
CONTRACTOR TO PROVIDE THE FOLLOWING BID ADD ALTERNATES:  
ALTERNATE NO.1: SNOW MELT SYSTEM

TOPOGRAPHIC SURVEY  
SITE REMOVAL PLAN  
SITE PAVING AND LAYOUT PLAN  
SITE GRADING AND STORM SEWER PLAN  
SEDIMENT AND EROSION CONTROL PLAN  
NOTES AND DETAILS

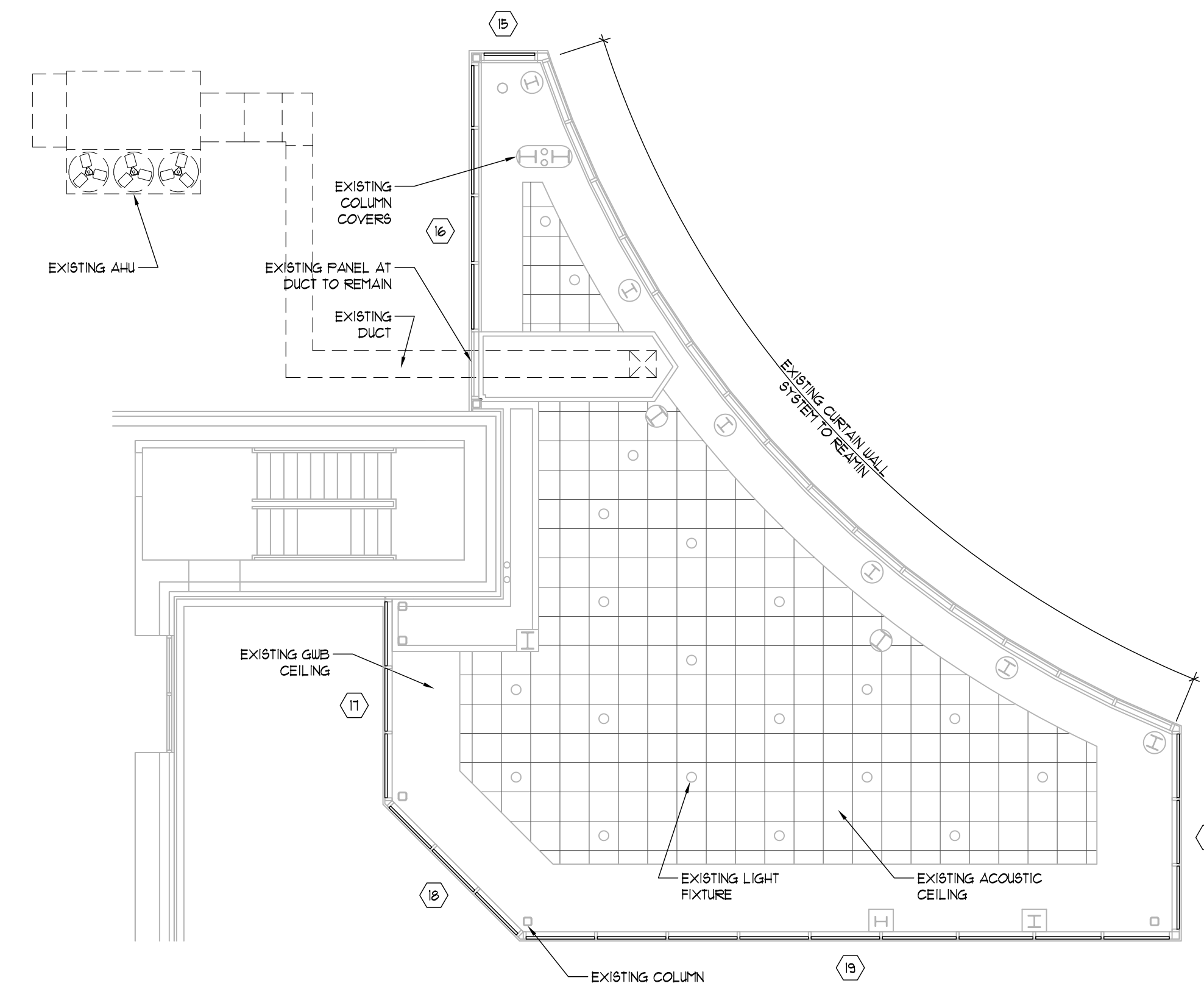
M0.1	MECHANICAL SYMBOLS LEGEND AND GENERAL NOTES
M2.1	BASEMENT MECHANICAL PLANS
M2.2	FIRST FLOOR MECHANICAL PLAN
M3.1	MECHANICAL DETAILS AND SCHEDULES

E0.1 ELECTRICAL SYMBOLS AND GENERAL NOTES  
E1.1 PARTIAL FIRST FLOOR LIGHTING PLAN  
E2.1 PARTIAL BASEMENT FLOOR ELECTRICAL PLAN

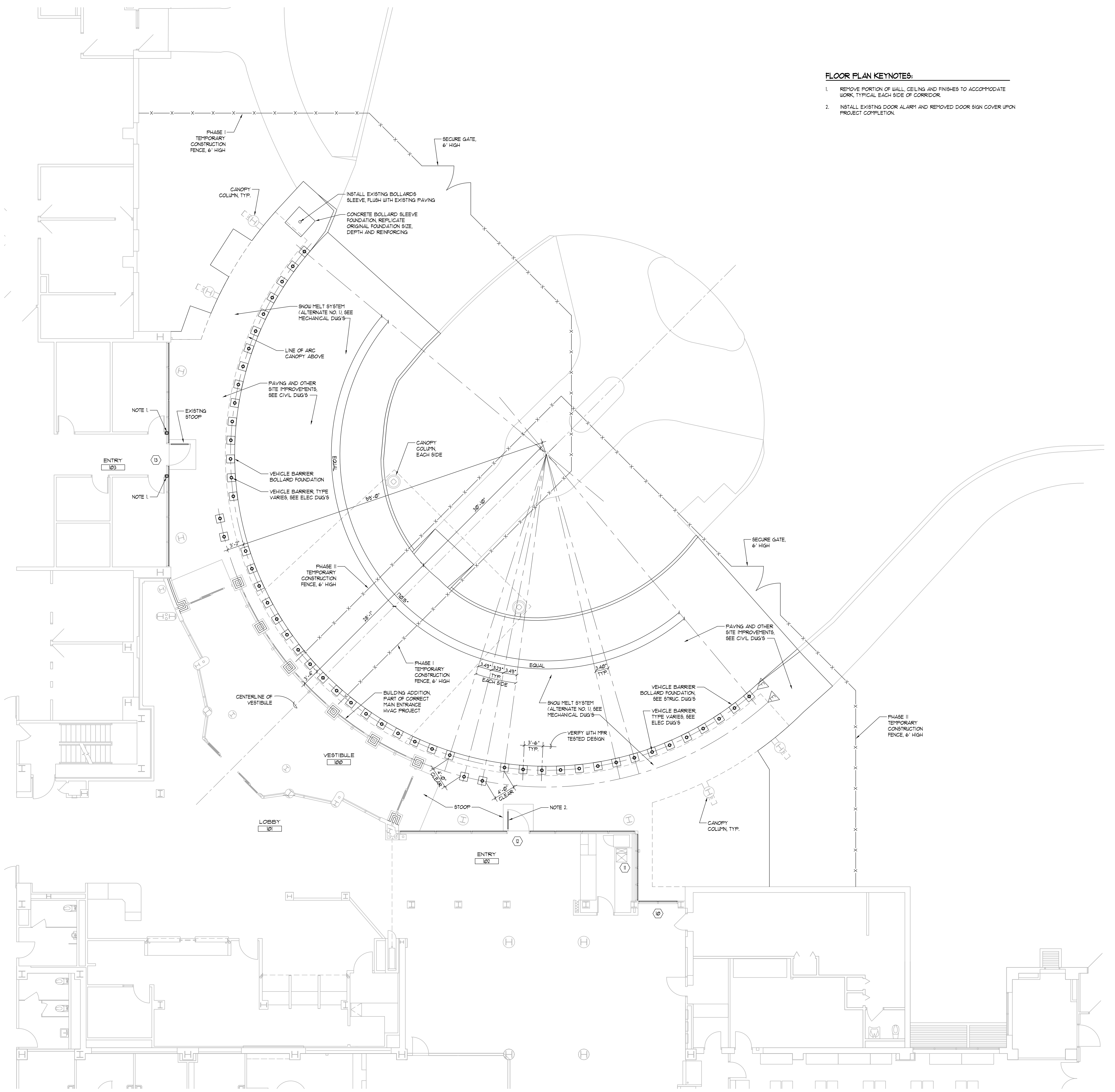


				ARCHITECT/ENGINEERS:				Drawing Title COVER SHEET		Project Title UPGRADE FORCE PROTECTION FRONT ENTRANCE		Project Number 636-13-126		Office of Construction and Facilities Management					
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Revisions:		Date								Date MAY 10, 2013		Checked CLH		Drawn		Dwg. 1 of 17		 Department of Veterans Affairs	
VA FORM 08-6231																			

one eighth inch = one foot  
one quarter inch = one foot  
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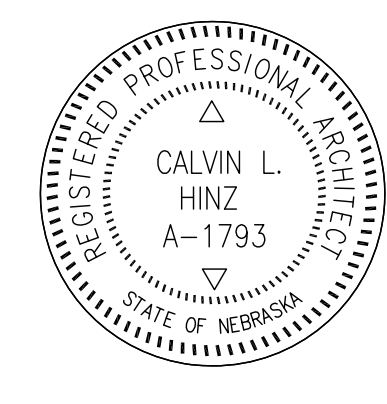
2 CLERESTORY PLAN  
SCALE: 1/8" = 1'-0"  
PLAN NORTH



1 FLOOR PLAN  
SCALE: 1/8" = 1'-0"  
PLAN NORTH

- FLOOR PLAN KEYNOTES:
1. REMOVE PORTION OF WALL, CEILING AND FINISHES TO ACCOMMODATE WORK, TYPICAL EACH SIDE OF CORRIDOR.
  2. INSTALL EXISTING DOOR ALARM AND REMOVED DOOR SIGN COVER UPON PROJECT COMPLETION.

Revisions:		Date:	
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Drawing Title	WINDOW TYPES
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CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title	UPGRADE FORCE PROTECTION FRONT ENTRANCE
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Location	VAMC
Date	MAY 10, 2013

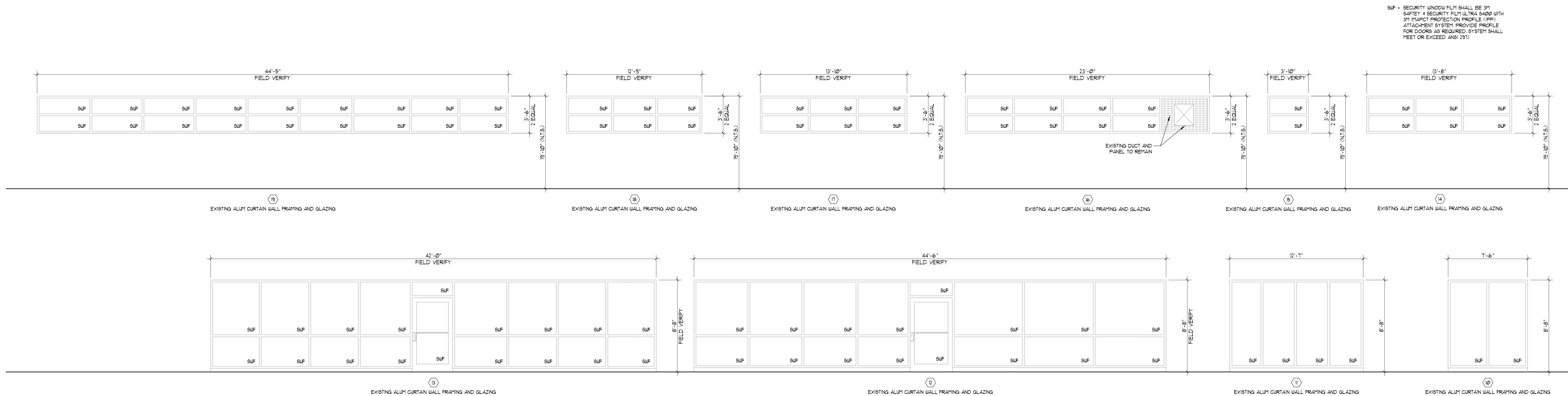
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Project Number	626 12 126
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Building Number  
ONE

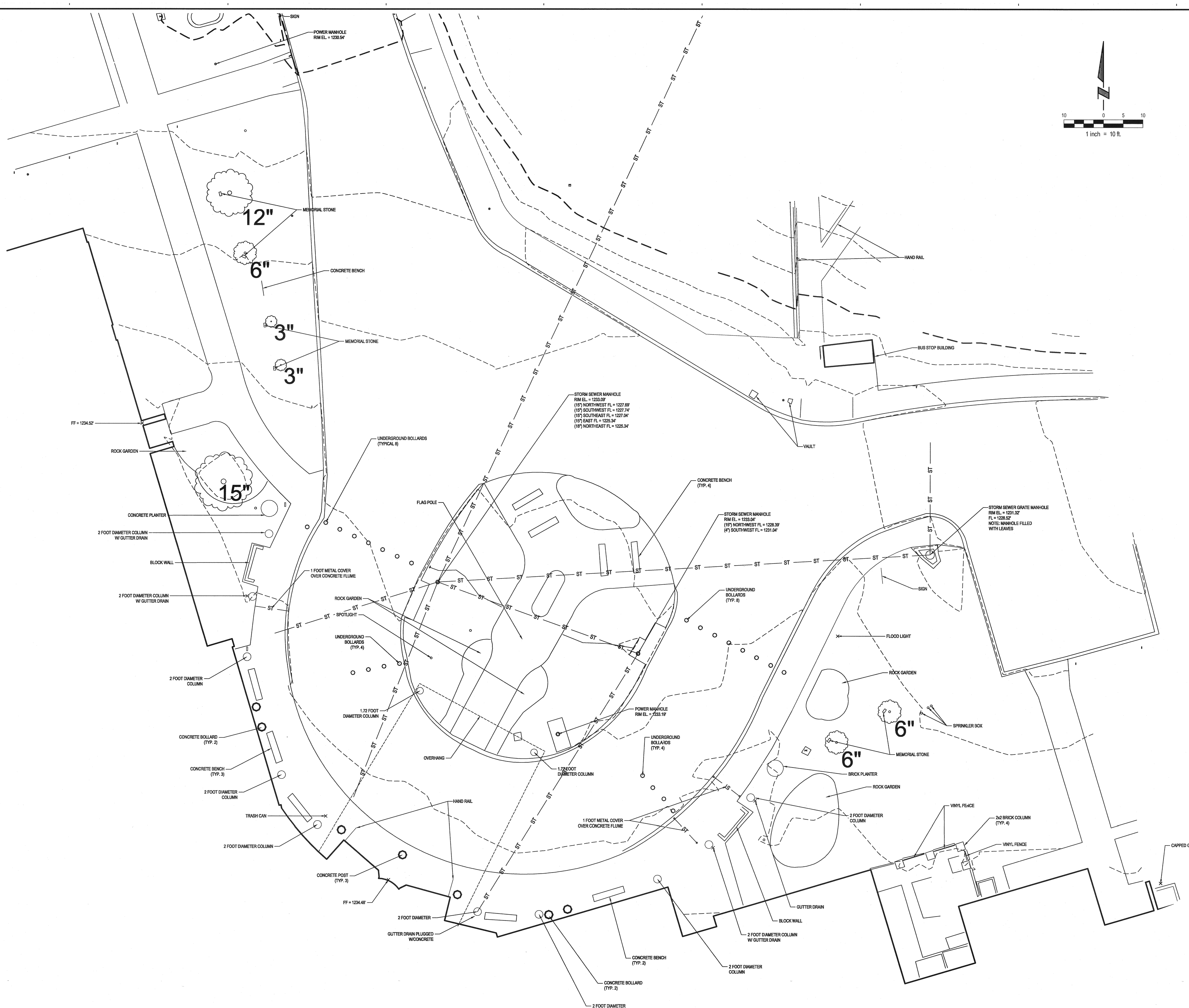
Drawing Number  
**A7.1**

Office of  
Construction  
and Facilities  
Management

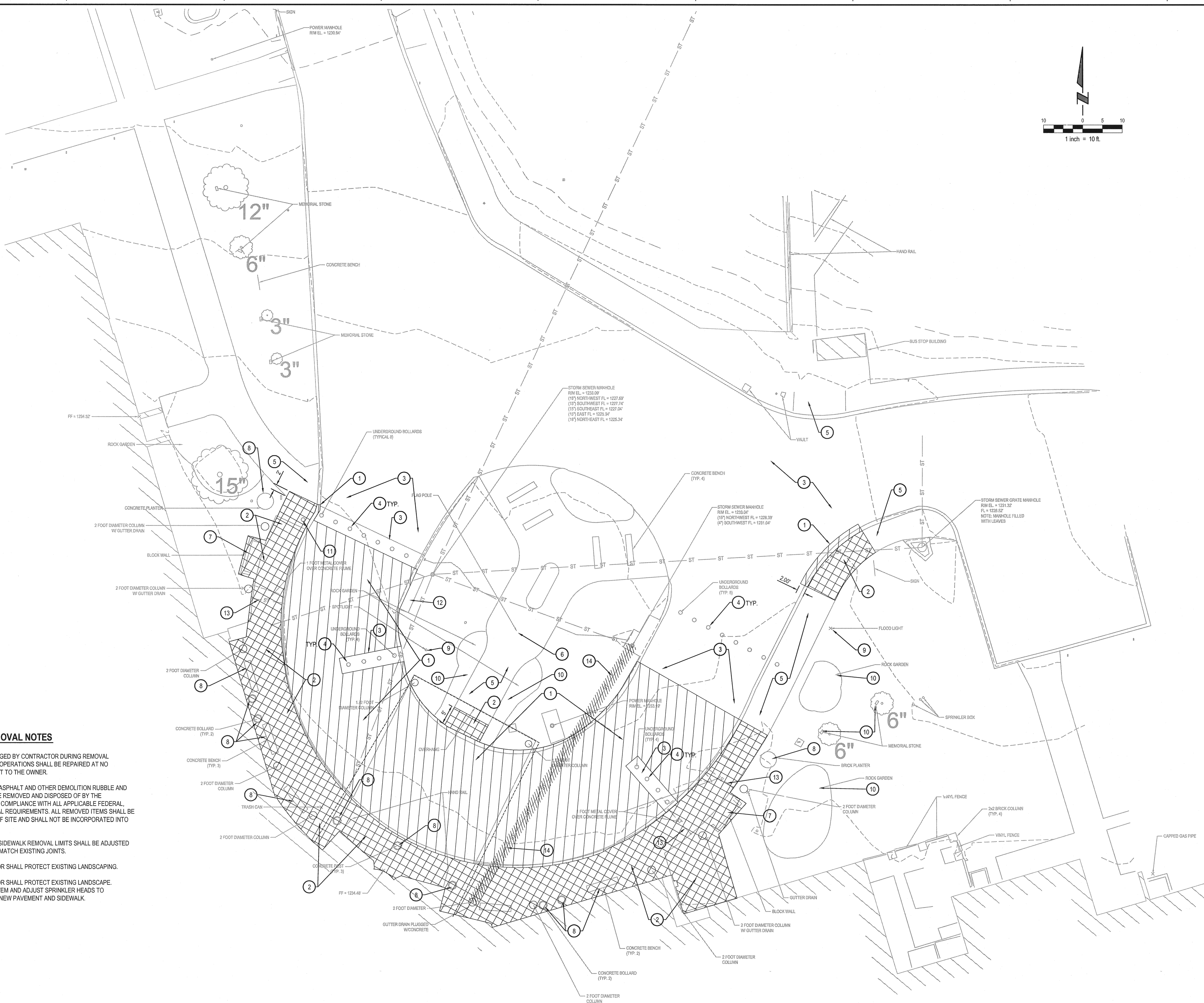


### WINDOW TYPES



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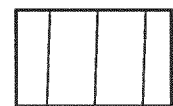




REMOVAL LEGEND:



REMOVE EXISTING PCC SIDEWALK



REMOVE EXISTING PCC CONCRETE PAVEMENT



REMOVE STORM SEWER PIPE

REMOVAL KEYED NOTES:

- 1 SAWCUT AND REMOVE EXISTING PAVEMENT.
- 2 SAWCUT AND REMOVE EXISTING PCC SIDEWALK.
- 3 EXISTING PAVEMENT TO REMAIN.
- 4 EXISTING BOLLARD RECEPTACLE TO REMAIN. DO NOT DISTURB BOLLARDS OR RECEPTACLE DURING ANY CONSTRUCTION ACTIVITIES.
- 5 EXISTING SIDEWALK TO REMAIN.
- 6 EXISTING FLAGPOLE TO REMAIN.
- 7 SEE ARCHITECTURAL PLAN FOR BENCH AND WALL REMOVAL.
- 8 SEE ARCHITECTURAL PLAN FOR REMOVAL.
- 9 EXISTING LIGHT TO REMAIN.
- 10 EXISTING LANDSCAPING TO REMAIN.
- 11 REMOVE AND SALVAGE BOLLARD RECEPTACLE, SEE ARCHITECTURAL PLAN.
- 12 REMOVE CURB INLET. REMOVE CONCRETE CHANNEL CONNECTION TO MANHOLE AND PLUG OPENING IN MANHOLE AS PART OF INLET REMOVAL.
- 13 REMOVE METAL COVER AND CONCRETE FLUME AS PART OF SIDEWALK REMOVAL.
- 14 REMOVE 4" STORM SEWER PIPE.

GENERAL REMOVAL NOTES

1. ALL ITEMS DAMAGED BY CONTRACTOR DURING REMOVAL CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
2. ALL CONCRETE, ASPHALT AND OTHER DEMOLITION RUBBLE AND DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. ALL REMOVED ITEMS SHALL BE DISPOSED OF OFF SITE AND SHALL NOT BE INCORPORATED INTO THE WORK.
3. PAVEMENT AND SIDEWALK REMOVAL LIMITS SHALL BE ADJUSTED IN THE FIELD TO MATCH EXISTING JOINTS.
4. THE CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING.
5. THE CONTRACTOR SHALL PROTECT EXISTING LANDSCAPE. SPRINKLER SYSTEM AND ADJUST SPRINKLER HEADS TO ACCOMMODATE NEW PAVEMENT AND SIDEWALK.

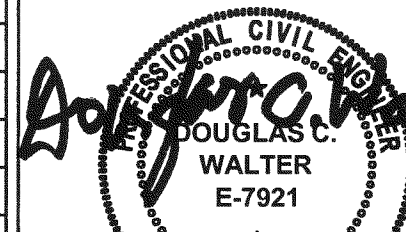


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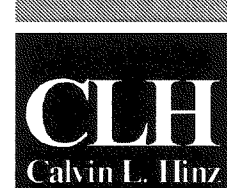
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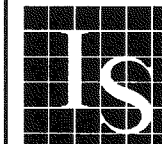
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InfraStructure, LLC  
ENGINEERING CONSULTING GROUP

Drawing Title

SITE REMOVAL PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title

UPGRADE FORCE PROTECTION  
FRONT ENTRANCE

Location

VAMC Omaha Nebraska

Date

MAY 10, 2013

Checked

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Project Number

636-13-126

Building Number

ONE

Drawing Number

Dwg. 3 of 17

Office of  
Construction  
and Facilities  
Management





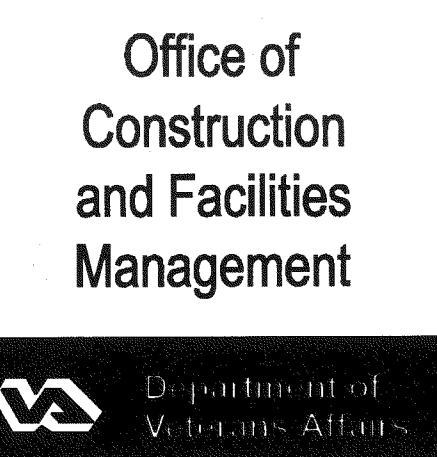




1. The Contractor Shall Have Complete Responsibility for Damage Caused by Blowing Dust from His Construction Activities.
2. Topsoil and Vegetation Shall be Stripped to a Depth of 4" to 6" in areas to be Graded.
3. All Fill and Backfill shall be Placed in Lifts of 6" or Less in Loose Thickness.
4. Areas to Receive Fill Shall be Scarified to a Minimum Depth of 12" and Protoflood Prior to Receiving Fill. Slopes Steeper than 3H:1V Shall be Benched Before Placing Fill. The Standard Specifications Shall Govern the Grading and Site Preparation with the Exception that Structural Fill Shall be Compacted to a Minimum of 95% of the Maximum Dry Density (ASTM D-698, Standard Proctor) at a Moisture Content Between -3% and +4% of Optimum.
5. For PCC Pavements, The Upper 12" of Subgrade Shall be Compacted to a Minimum of 90% of the Maximum Dry Density (ASTM D-1557, Modified Proctor) at a Moisture Content Between -3% and +4% of Optimum.
6. For Sidewalks, The Upper 6" of Subgrade Shall be Compacted to a Minimum of 95% of the Maximum Dry Density (ASTM D-698, Standard Proctor) at a Moisture Content Between -3% and +4% of Optimum. Sidewalk Subgrade Shall Extend at Least 6" Laterally Beyond the Edge of the New Sidewalk.
7. Imported Material, If Required, Shall be Free of Organic Material and Debris, and Shall be a Clean, Inorganic Soil or Lean Clay with a Liquid Limit Less Than 45 and a Plasticity Index Less Than 20. Borrow Material Shall Not Contain any Foreign Material with a Dimension Greater than 3".
8. Any Excess Material Shall be Disposed of Off-Site at a Location Determined by the Contractor.
9. Unless Noted, All Spot Elevations Shown are Top of Slab or Gutter. Add 0.5' to Determine Top of Curb Elevations.
10. A Grading Permit is Not Required for this Project Since it Disturbs Less Than One Acre.
11. All Disturbed Areas Beyond the Pavement and Sidewalk Shall be Sodded.

- 1 Construct 54" Manhole with Slotted Cover over existing storm sewer pipe, Rim = 1232.75, FL (Exist. Pipe) = 1225.50, FL (10' In) = 1228.74 (field verify). Field verify location and flow line of existing storm sewer pipe.
- 2 44 LF of 10" Storm Sewer Pipe @ 4.00% and connect to proposed Manhole.
- 3 Construct 18" Drain Basin with 18" Standard Round Gate. Gate Elevation = 1233.50, FL (10' Out) = 1230.50, FL (6' In) = 1230.83
- 4 7 LF of 10" Storm Sewer Pipe @ 2.00% and connect to existing Curb Inlet. FL (10' In) = 1229.50, FL (Existing 15" Out) = 1228.39 (Field Verify)
- 5 Construct 18" Drain Basin with 18" Solid Round Gate. Gate Elevation = 1233.70, FL (10' In) = 1229.64, FL (10' Out) = 1229.64
- 6 49 LF of 10" Storm Sewer Pipe @ 2.16%
- 7 Construct 18" Drain Basin with 18" Standard Round Gate. Gate Elevation = 1233.70, FL (10' Out) = 1230.70, FL (6' In) = 1231.03
- 8 6" HDPE Piping for downsputs. Minimum Slope = 1.0%. Connect to gutter downsputs.

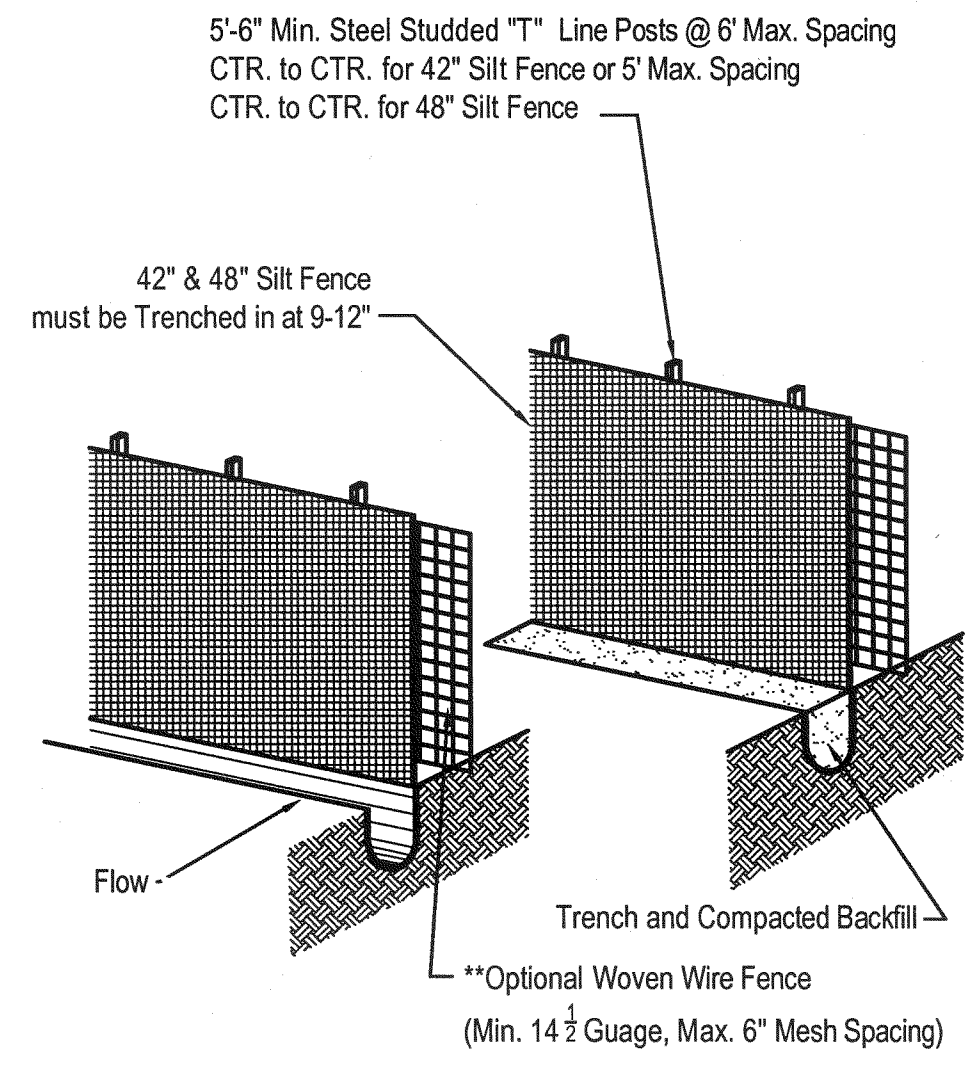
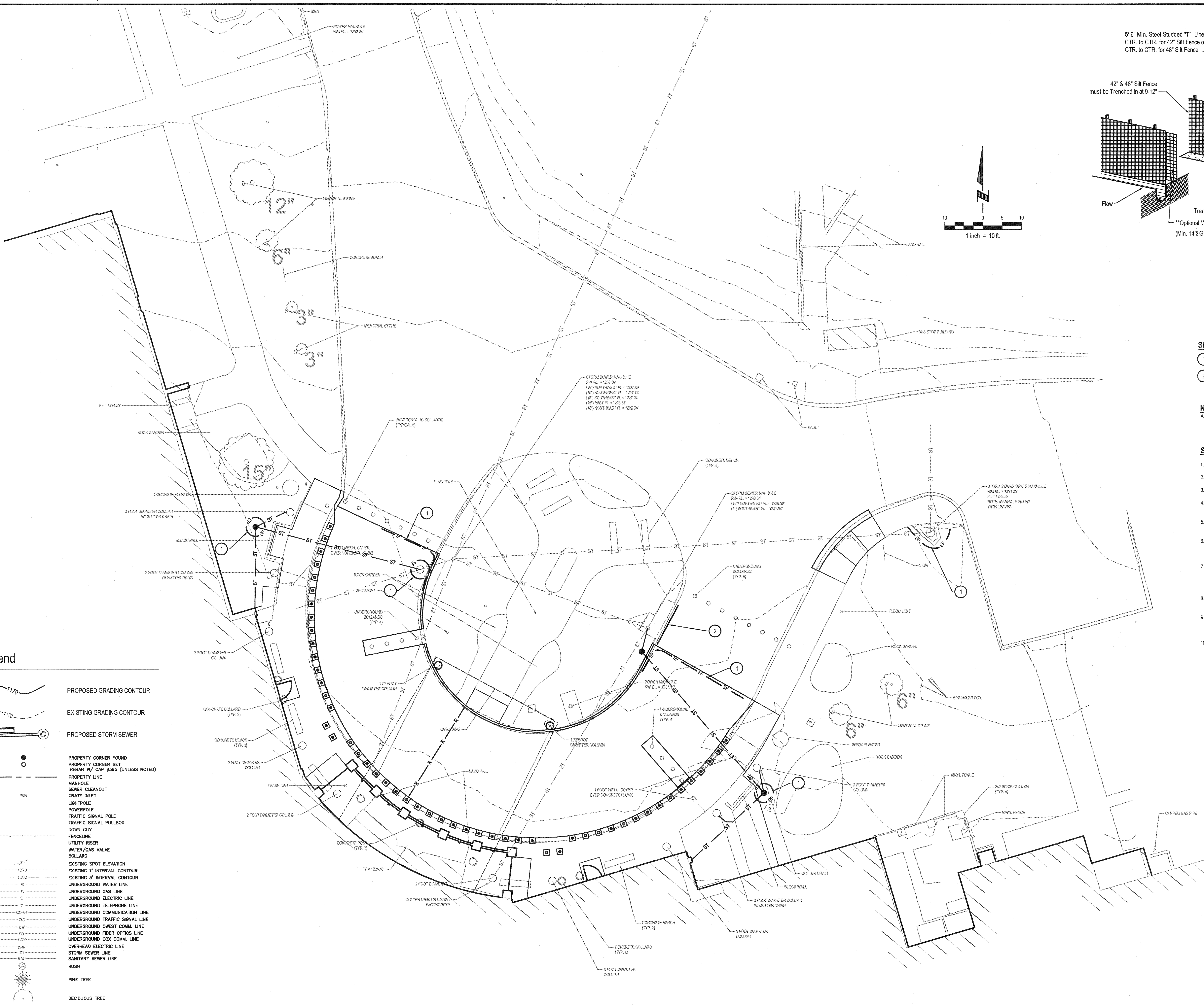
The diagram illustrates the relationship between different grading and elevation markers. At the top, a solid curved line represents the 'PROPOSED GRADING CONTOUR' with an elevation of 170. Below it, a dashed curved line represents the 'EXISTING GRADING CONTOUR' also at 170. A diagonal line segment is labeled 'PROPOSED SPOT ELEVATION' with a value of 24.30. Below this, another diagonal line segment is labeled 'MATCH EXISTING ELEVATION (APPROXIMATE ELEVATION)'. At the bottom, a horizontal line with three vertical tick marks is labeled 'RIDGE LINE'.



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- NOTES:
1. Acceptable silt fence specifications- AOS (#20 - 50 Sieve), Water Flow Rate (50 gpm/ sq. ft. - 125 gpm/ sq.ft), Tensile Strength (Grai) - (Min. 120 Wap or greater and Elongation (5-25%).
  2. On each new run of silt fence spray paint the beginning of the run with 0+00 and spray paint the end with the date of installation and LF of the run.
  3. Silt fence should be securely fastened to each steel support post or to woven wire which is in turn attached to the steel fence posts. A minimum of 3 ties are required for each post. To be located in the top 12" of the silt fence.
  4. Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. (Incline all posts 20° Max. from vertical, toward flow)
  5. Silt fence shall be trenched in with a silt fence plow so that the downslope face of the trench is flat and perpendicular to the line of flow.
  6. Silt fence shall be removed when it has served its usefulness so as not to block or impede storm flow or drainage.
  7. Sediment trapped by this practice shall be uniformly distributed on the source area prior to topselling.

**SILT FENCE**  
NOT TO SCALE

**SEDIMENT AND EROSION CONTROL PLAN KEYED NOTES:**

1. INSTALL SILT FENCE. SEE DETAIL ON THIS SHEET.
2. INSTALL 9" DIAMETER WATTLE TYPE FILTER IN THROAT OF INLET.

**NOTE:**  
A GRADING PERMIT IS NOT REQUIRED FOR THIS PROJECT SINCE IT DISTURBS LESS THAN ONE ACRE.

**STORM WATER POLLUTION PREVENTION PLAN GENERAL NOTES**

1. OPERATORS/CONTRACTORS SHALL COMPLY WITH NOISE AND DUST CONTROL ORDINANCES.
2. OPERATORS/CONTRACTORS SHALL LOCATE EXISTING UTILITIES PRIOR TO THE START OF WORK.
3. OPERATORS/CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS.
4. OPERATORS/CONTRACTORS SHALL CONFIRM WITH THE OWNER THAT GOVERNMENTAL APPROVALS HAVE BEEN RECEIVED PRIOR TO THE START OF WORK.
5. OPERATORS/CONTRACTORS SHALL PERFORM CONSTRUCTION ACTIVITIES AS DIRECTED BY THE OWNER, INSPECTOR, AND GOVERNMENT REGULATORS TO MINIMIZE THE POTENTIAL FOR EROSION AND POLLUTION.
6. EACH OPERATOR/CONTRACTOR SHALL MONITOR SILT FENCING AND OTHER BEST MANAGEMENT PRACTICES (BMPs), WITHIN THEIR AREAS OF RESPONSIBILITY, AND INSTALL ADDITIONAL BMPs AS NECESSARY AND AS DIRECTED BY THE INSPECTOR.
7. EACH OPERATOR/CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT FROM TEMPORARY SEDIMENT TRAPS, TEMPORARY SEDIMENT BASINS, BEHIND SILT FENCES, AND OTHER EROSION CONTROL MEASURES THAT STORE SEDIMENT, WITHIN THEIR AREAS OF RESPONSIBILITY, IF NECESSARY AND AS DIRECTED BY THE INSPECTOR.
8. EACH OPERATOR/CONTRACTOR SHALL MAINTAIN AND PERFORM PREVENTATIVE MAINTENANCE ON EACH BEST MANAGEMENT PRACTICE (BMP), WITHIN THEIR AREAS OF RESPONSIBILITY, TO ENSURE THEIR FUNCTION.
9. BMPs SHALL BE KEPT IN WORKING ORDER. EACH OPERATOR/CONTRACTOR SHALL REPAIR ANY DEFECTS OR DAMAGES, WITHIN THEIR AREAS OF RESPONSIBILITY, AT OR BEFORE THE END OF EACH WORKING DAY OR AS DIRECTED BY THE INSPECTOR.
10. IN THE EVENT OF A RELEASE OF OIL OR HAZARDOUS SUBSTANCE, OPERATORS/CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY FOR NOTIFICATION, CONTAINMENT, INVESTIGATION, REMEDIAL ACTION AND DISPOSAL.

**Legend**

- PROPOSED GRADING CONTOUR
- EXISTING GRADING CONTOUR
- PROPOSED STORM SEWER
- PROPERTY CORNER FOUND
- PROPERTY CORNER SET
- REBAR W/ CAP #365 (UNLESS NOTED)
- PROPERTY LINE
- MANHOLE
- SEWER CLEANOUT
- GRATE INLET
- LIGHTPOLE
- POWERPOLE
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL PULLBOX
- DOWN GUY
- FENCELINE
- UTILITY RISER
- WATER/GAS VALVE
- BOLLARD
- EXISTING SPOT ELEVATION
- EXISTING 1' INTERVAL CONTOUR
- EXISTING 5' INTERVAL CONTOUR
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND COMMUNICATION LINE
- UNDERGROUND TRAFFIC SIGNAL LINE
- UNDERGROUND QWEST COMM. LINE
- UNDERGROUND FIBER OPTICS LINE
- UNDERGROUND COX COMM. LINE
- OVERHEAD ELECTRIC LINE
- STORM SEWER LINE
- SANITARY SEWER LINE
- BUSH
- PINE TREE
- DECIDUOUS TREE

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**ARCHITECT/ENGINEERS:**

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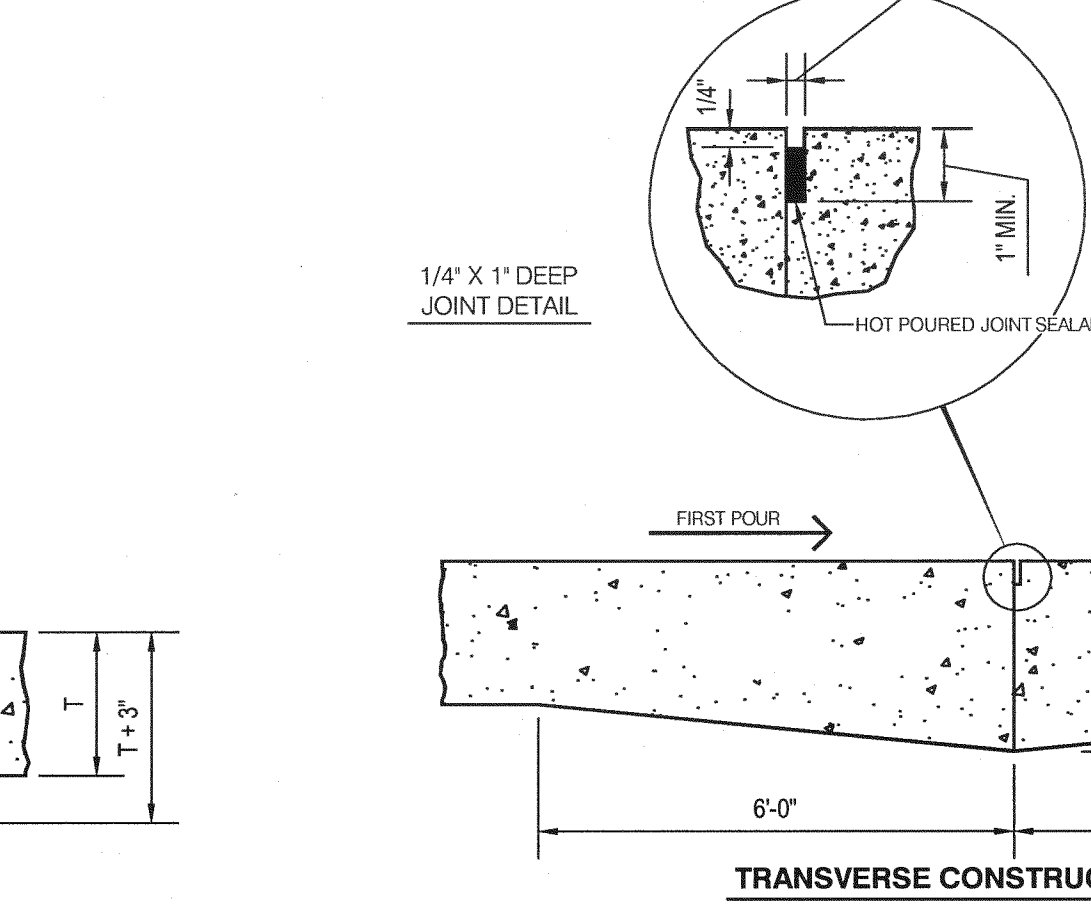
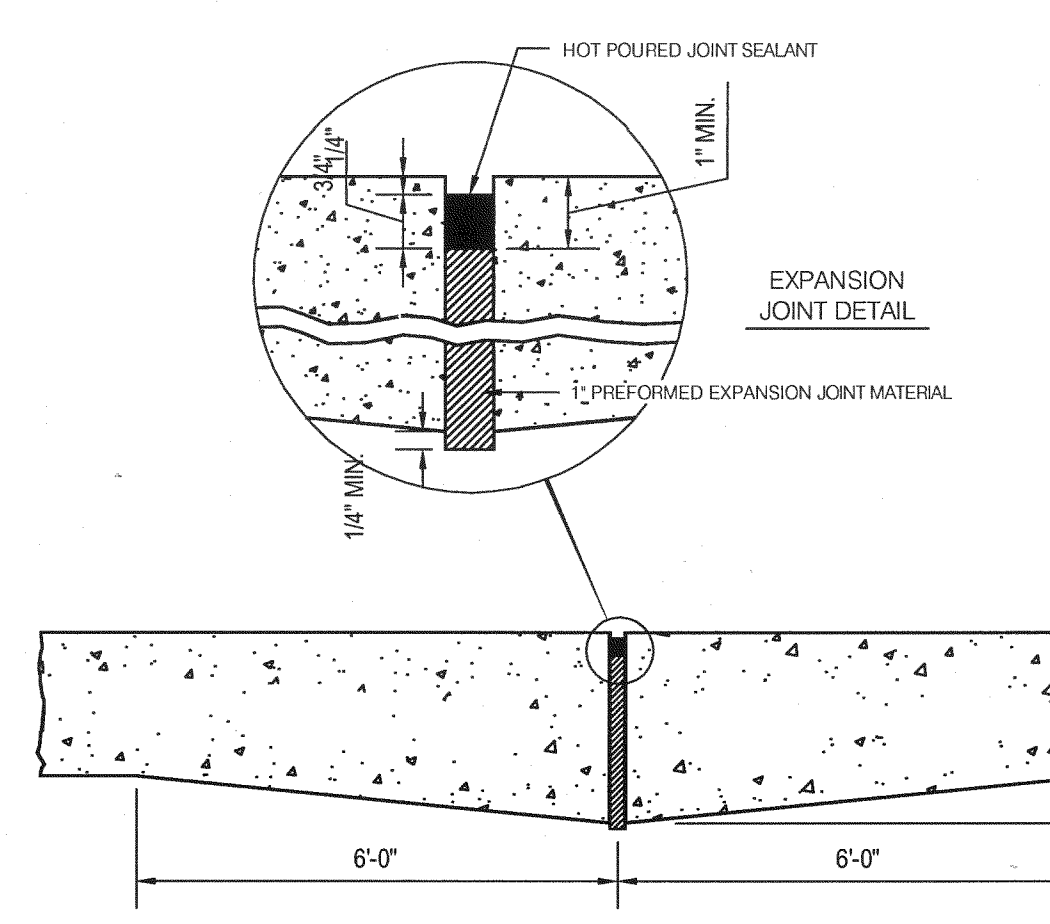
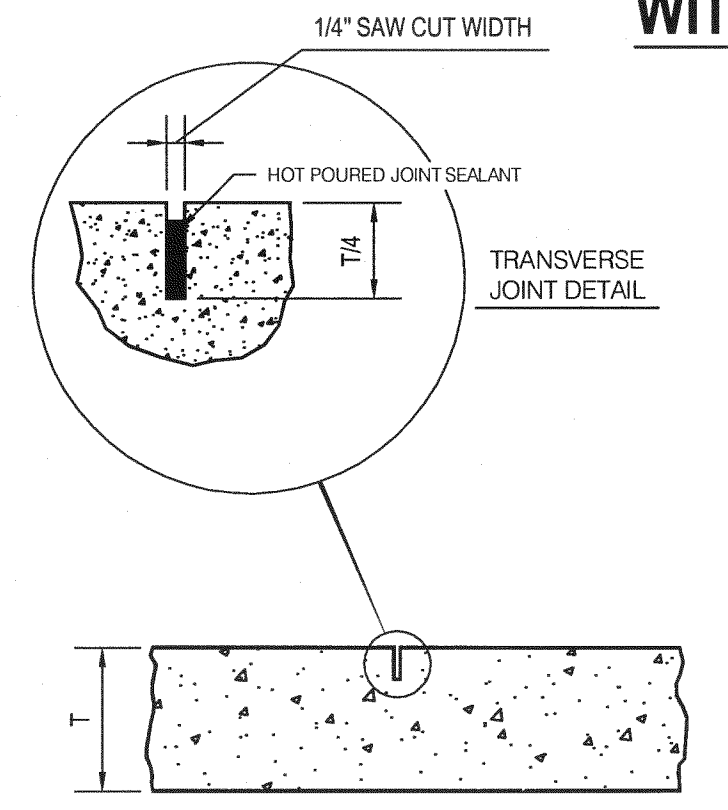
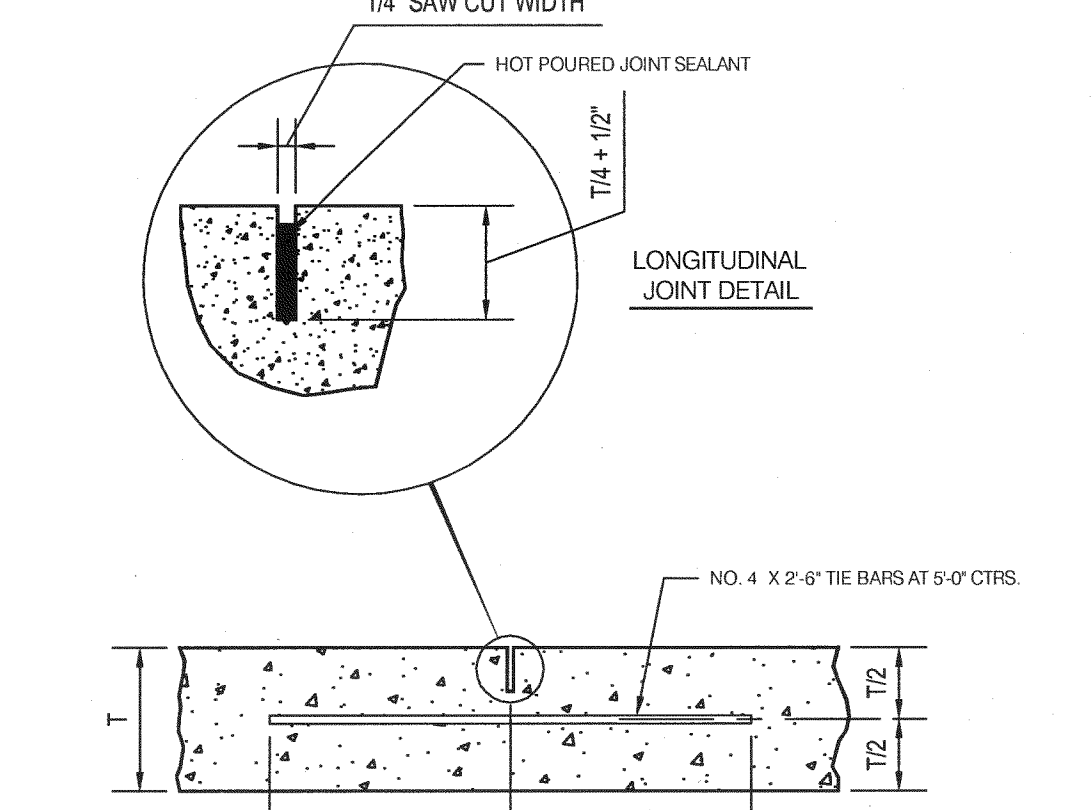
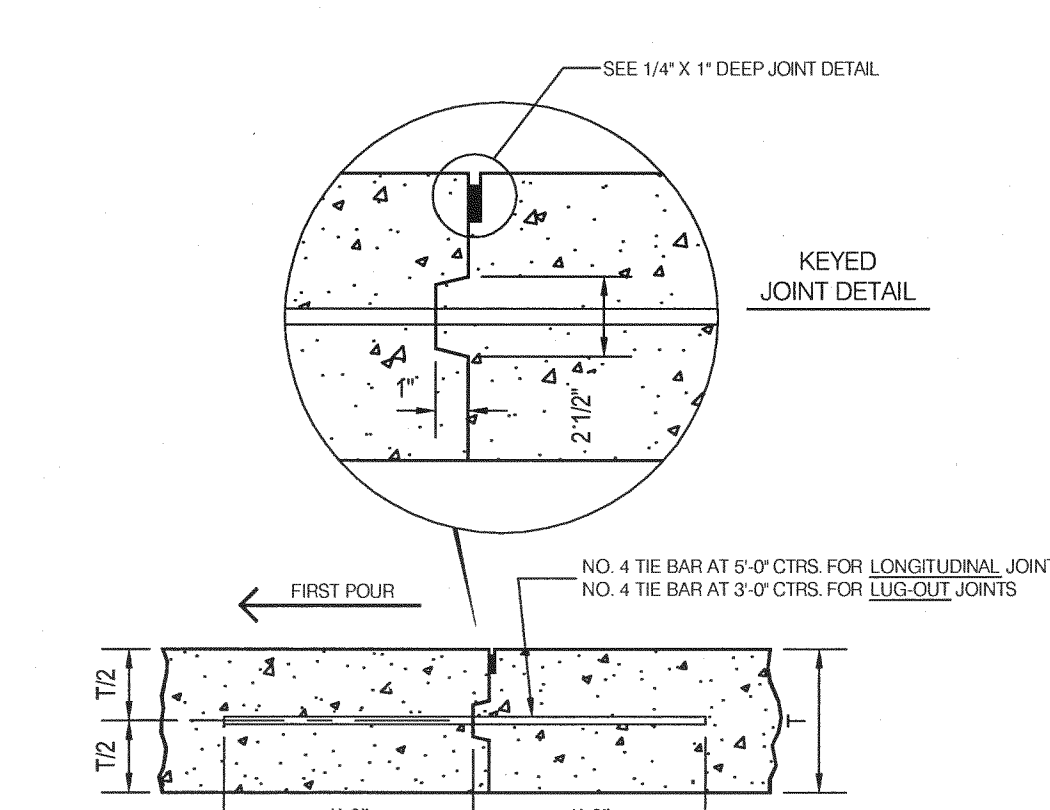
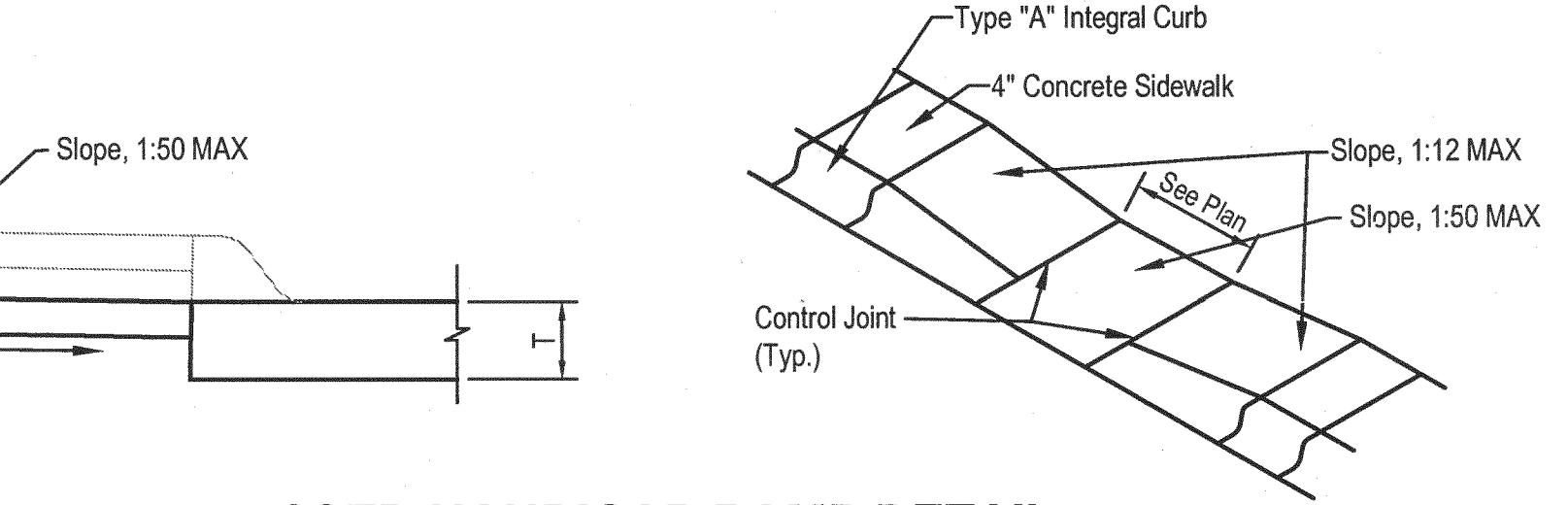
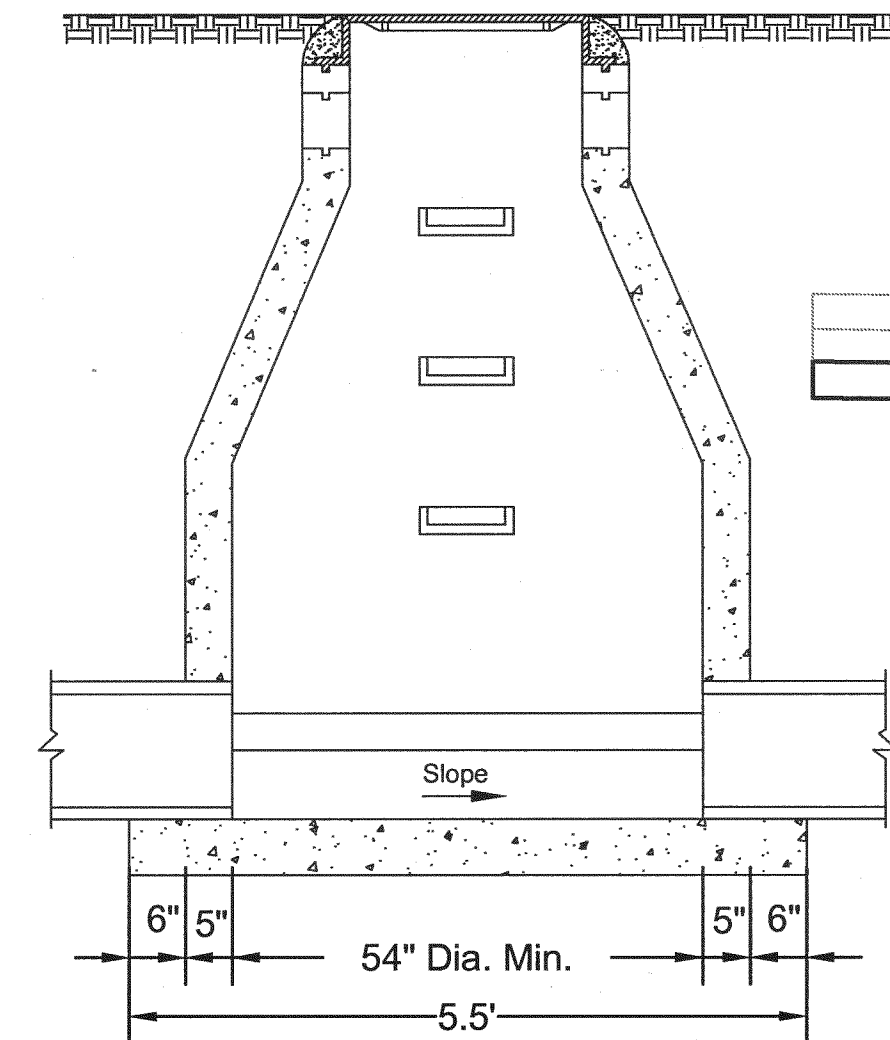
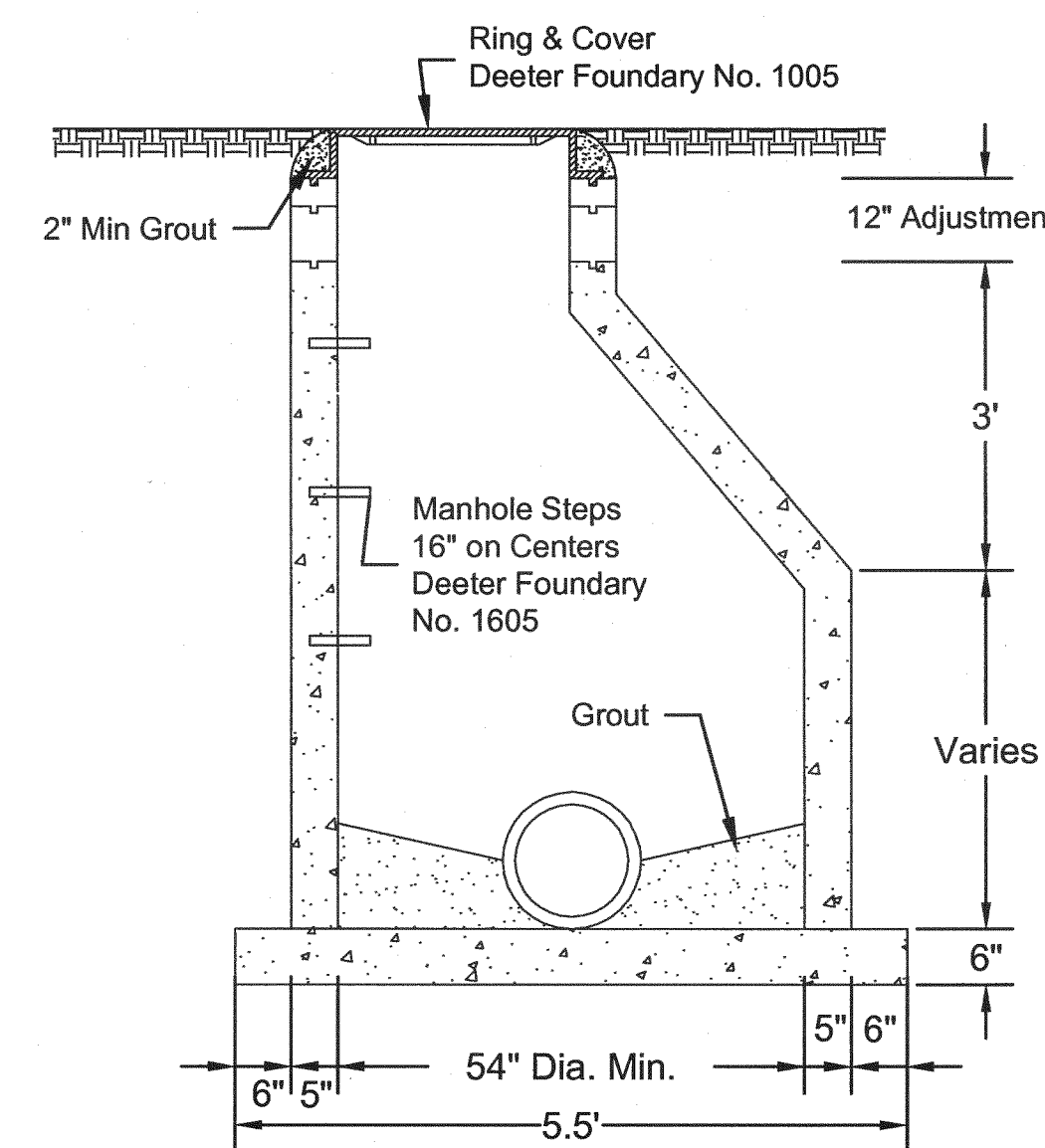
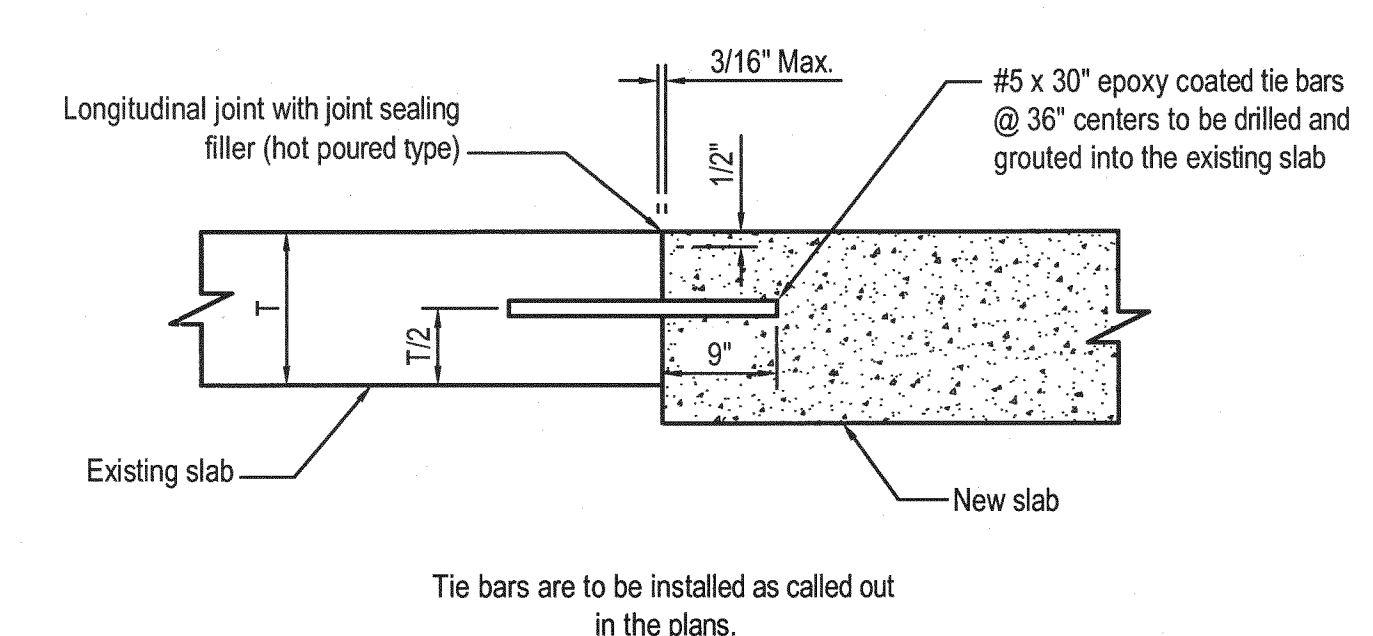
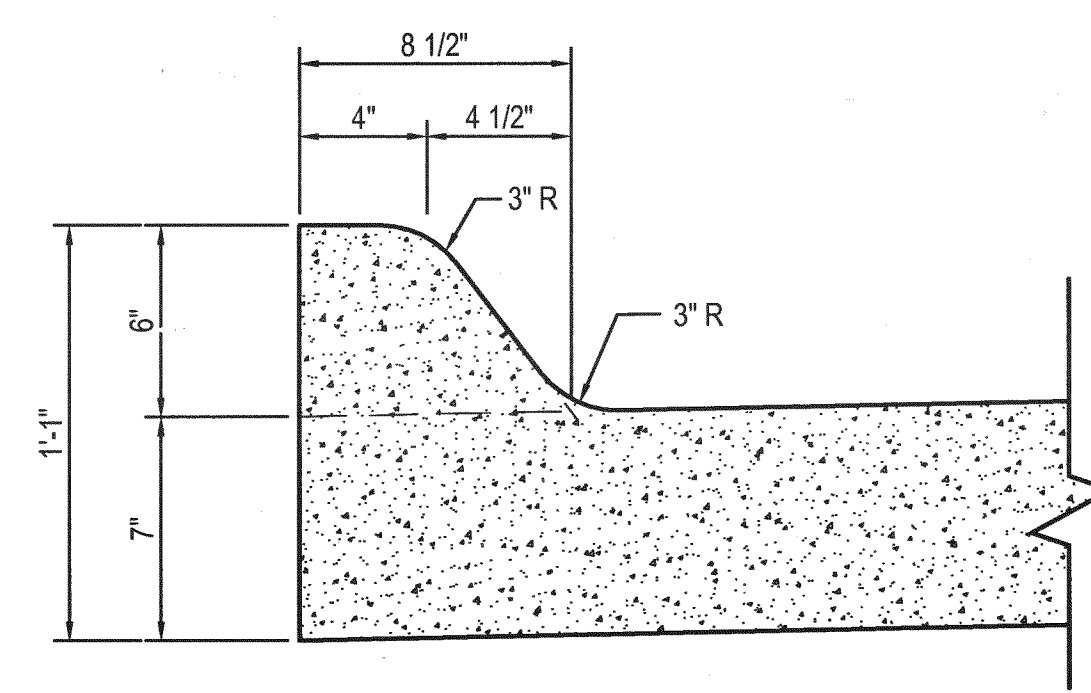
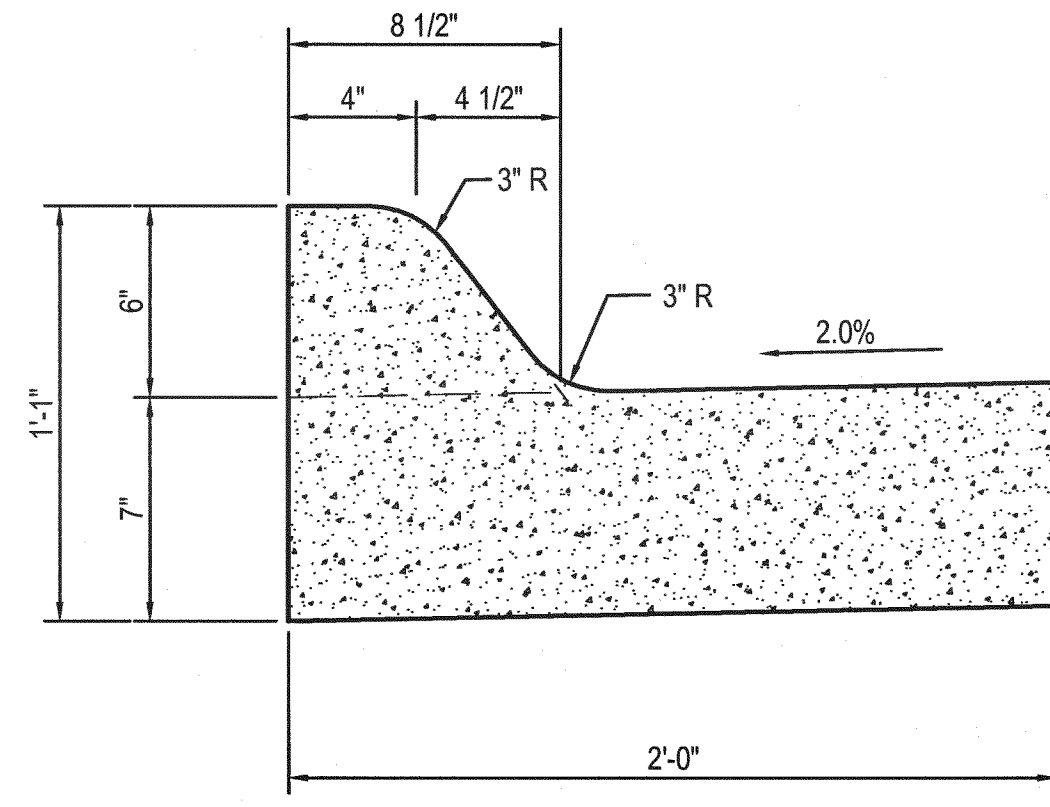
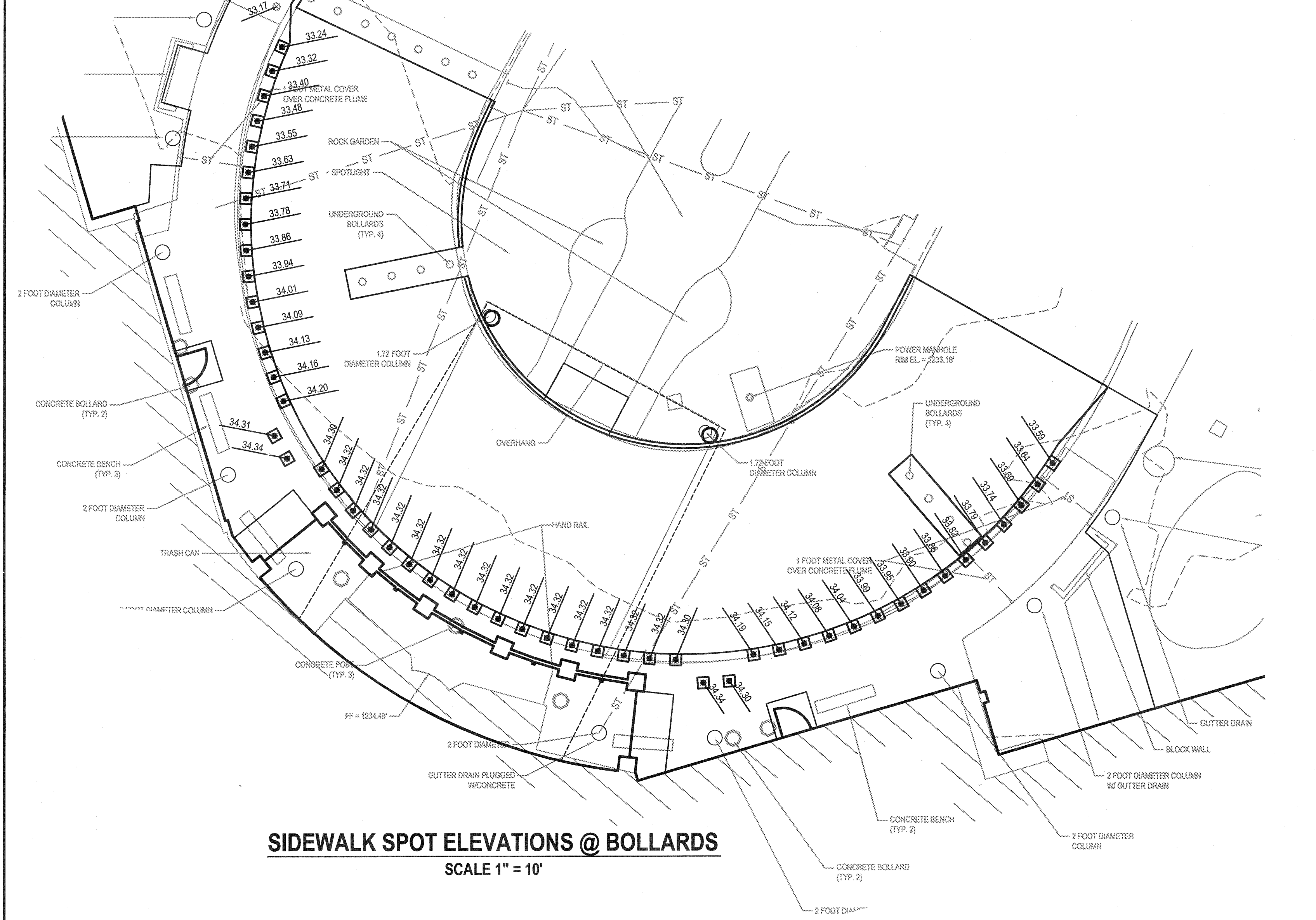
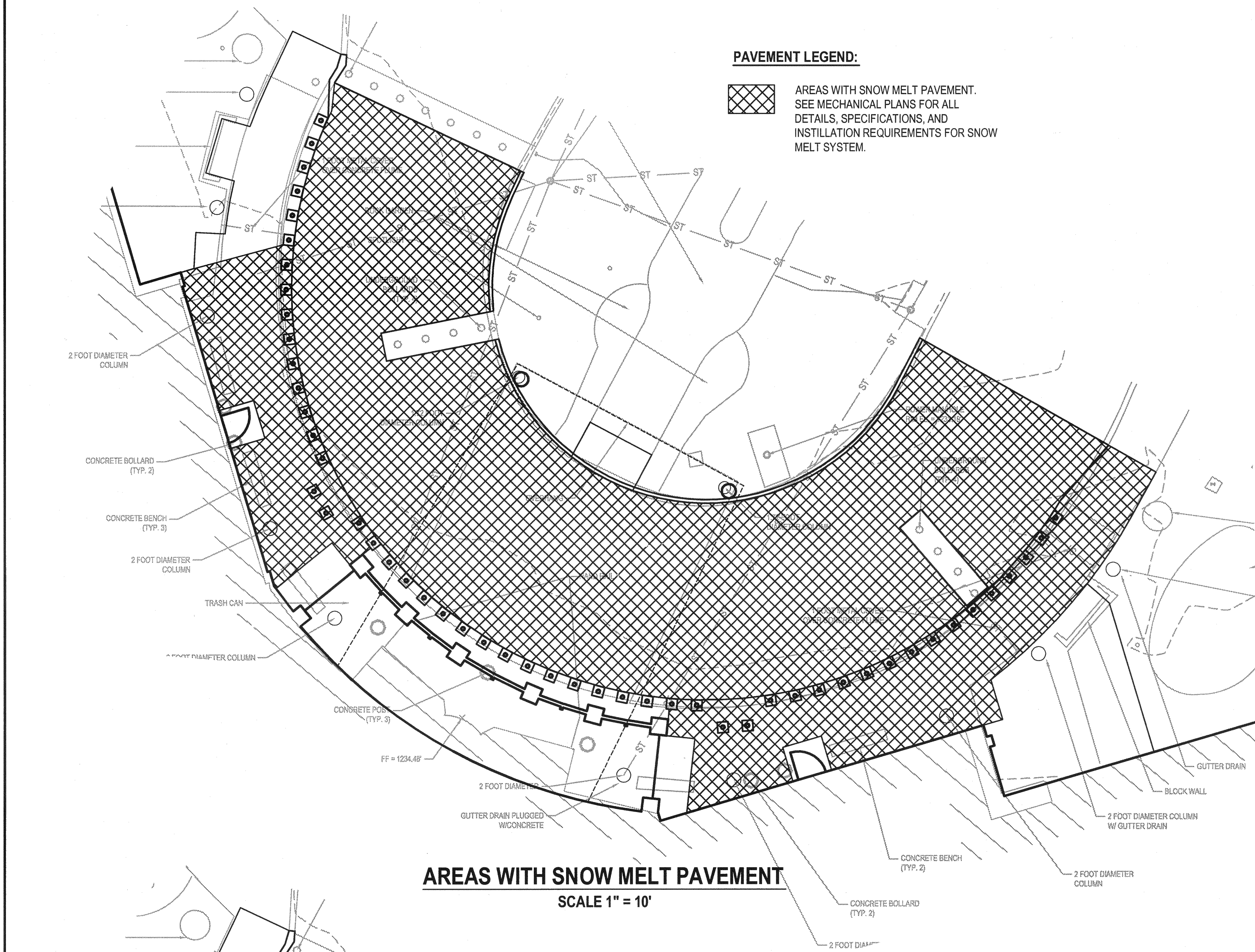
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Drawing Title <b>SEDIMENT AND EROSION CONTROL PLAN</b>	Project Title <b>UPGRADE FORCE PROTECTION FRONT ENTRANCE</b>	Project Number <b>636-13-126</b>	Office of Construction and Facilities Management Department of Veterans Affairs
CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)	Location <b>VAMC Omaha Nebraska</b>	Building Number <b>ONE</b>	
	Date <b>MAY 10, 2013</b>	Checked <b>CLH</b>	





- GENERAL SITE CONSTRUCTION NOTES**
- Utilities are shown as a convenience for the Contractor. The locations of all aerial and underground utility facilities may not be indicated in these plans. Underground utilities, whether indicated or not, will be located and flagged by the utility companies at the Contractor's request. No excavation will be permitted in the area of the underground utilities until all facilities have been located and identified to the satisfaction of all parties and then only with extreme care to avoid any possibility of damages to the facilities.
  - Erosion control improvements shall be constructed on this site, including inlet protection, silt fencing, and a construction entrance. The Contractor shall be responsible for prompt reconstruction of any erosion control improvements disturbed by his operations. All disturbed erosion control improvements shall be fully reconstructed at the end of each working day prior to leaving the site. Separate payment will not be made for reconstruction of any erosion control improvements. Positive drainage in all work areas shall be maintained in the condition the construction site was in prior to Contractors arrival.
  - The Portland Cement Concrete for the pavement slab, combination curb & gutter, and sidewalk shall be Type B (Air Entrained), in accordance with the Standard Specifications.
  - The Contractor shall submit a jointing plan to the Engineer for approval. The jointing plan shall conform to the following guidelines:
    - Concrete Pavement shall be jointed in maximum 12' x 12' panels and shall be kept as square as possible. Joints shall be perpendicular to edges and radii, and shall not form angles less than 45 degrees or over 225 degrees.
    - Sidewalk joints shall coincide with bollard spacing.
    - 8' sidewalk shall be jointed in 4' x 4' panels. Other sidewalk shall be jointed in maximum 5' x 5' panels.
  - Contraction Joints shall be cut in to a minimum of 1/4 of slab thickness.
  - Isolation Joints (1/2 mastic) shall be provided around or adjacent to any structure or bollard.
  - All Pavement Joints shall be sealed with a hot applied sealant. The Contractor shall submit a joint sealant to the Engineer for approval.
  - Backfill soils in utility trenches, foundations, basement walls, and retaining walls shall be compacted to a minimum of 95% of the maximum dry density (ASTM D-698, Standard Proctor) at a moisture content between -3 and +4% of the optimum. Lift thickness shall be appropriately matched to the type of compaction equipment used.
  - Drain Basin shall be a Nyloplast Drain Basin with Grate as called out or approved.

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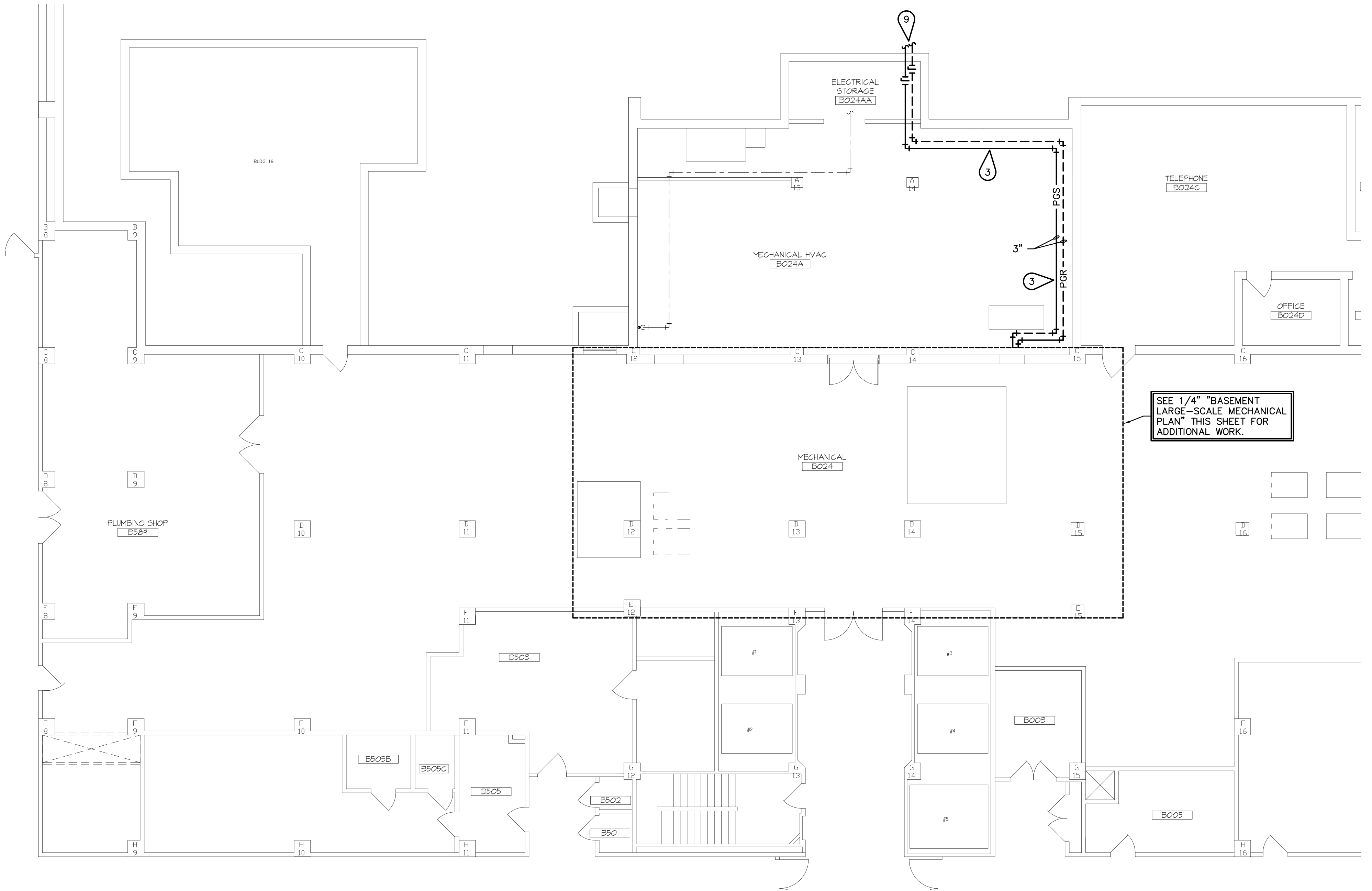


one eighth inch = one foot

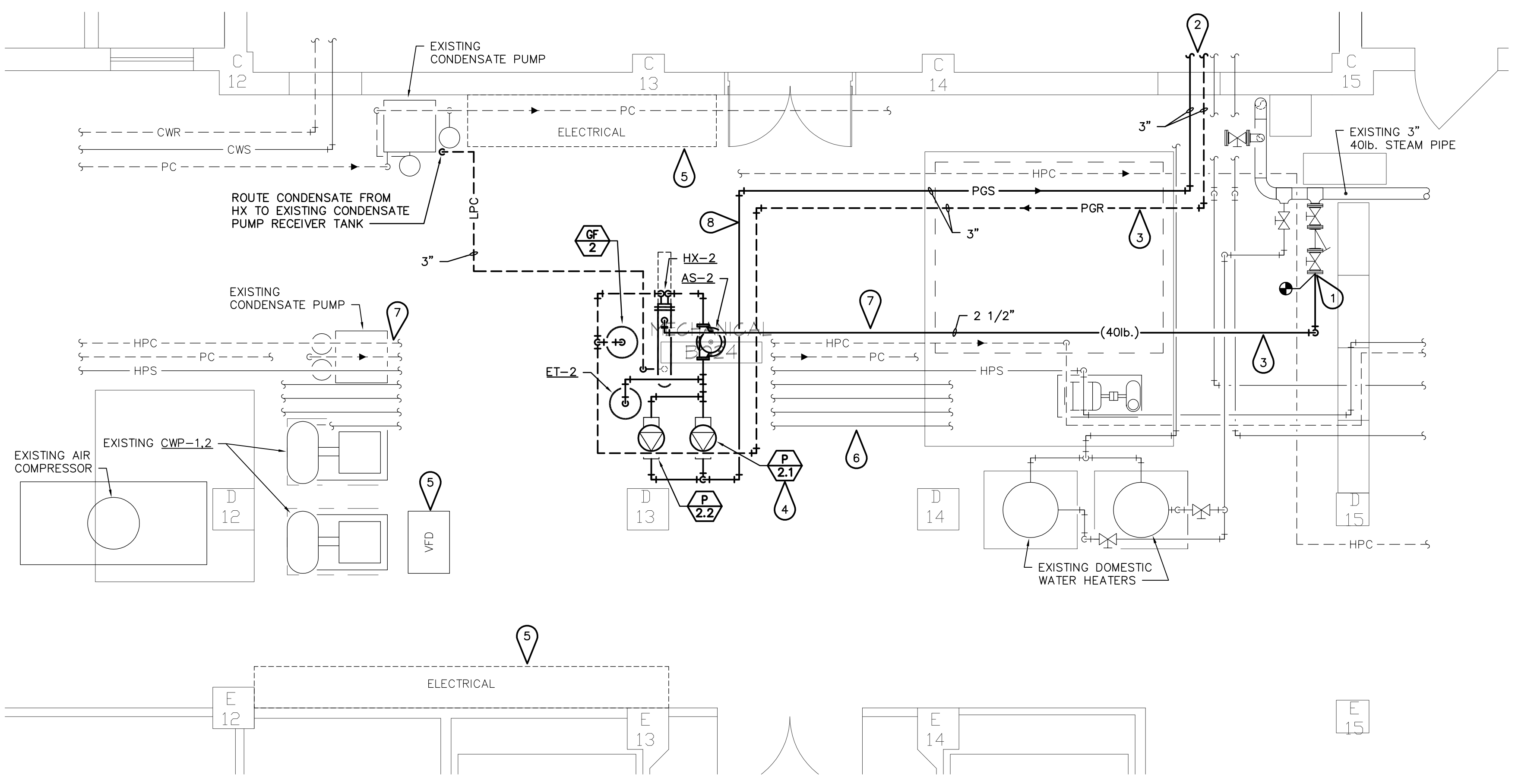




- MECHANICAL KEYNOTES:** (C)
- 1 CONNECT NEW 2 1/2" 40lb. STEAM SUPPLY PIPE TO EXISTING VALVED AND CAPPED PIPE BRANCH.
  - 2 REFER TO BASEMENT MECHANICAL PLAN, THIS SHEET, FOR CONTINUATION OF PIPING.
  - 3 CONTRACTOR SHALL COORDINATE BEST ROUTING OF NEW PIPING IN THIS AREA WITH EXISTING CONDITIONS.
  - 4 PUMPS P2.1, P2.2, HX-2, AS-2, ET-2, GF-2 AND ALL ASSOCIATED CONNECTED PIPING, VALVES, ETC. SHALL BE FACTORY ASSEMBLED ON A PRE-PACKAGED STEEL SKID. INSTALL SKID ON 4" THICK CONCRETE EQUIPMENT PAD. REFER TO DETAIL 1/M3.1.
  - 5 MAINTAIN REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT.
  - 6 EXISTING OVERHEAD ELECTRICAL CONDUITS AT +6'-10" A.F.F.
  - 7 EXISTING OVERHEAD STEAM AND CONDENSATE PIPING AT +6'-2" A.F.F.
  - 8 MAINTAIN CLEARANCE OF +6'-2" A.F.F. (MIN.) ON ALL NEW PIPING INSTALLATIONS ABOVE WALKWAY AREAS IN THIS ROOM.
  - 9 SEE SHEET M2.2 FOR CONTINUATION OF PIPING.

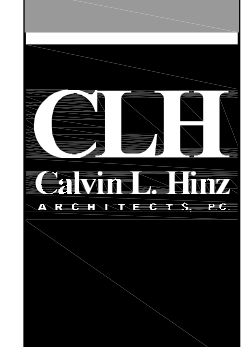

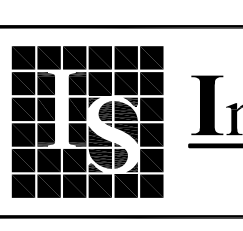


**1 BASEMENT MECHANICAL PLAN**  
M2.1 SCALE: 1/8" = 1'-0"  
PLAN NORTH



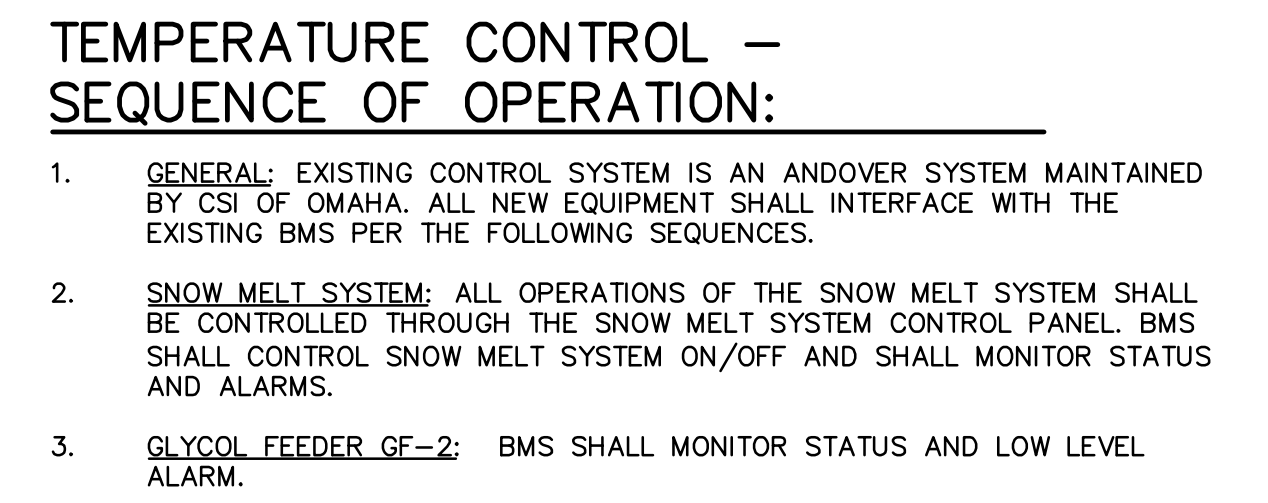
**2 BASEMENT LARGE-SCALE MECHANICAL PLAN**  
M2.1 SCALE: 1/4" = 1'-0"  
PLAN NORTH

Revisions:		Date	
VA FORM 08-6231		1	
2		3	
4		5	
6		7	
8		9	

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Drawing Title <b>BASEMENT MECHANICAL PLANS</b>		Project Title <b>UPGRADE FORCE PROTECTION FRONT ENTRANCE</b>		Project Number <b>636-13-126</b>	
Location <b>VAMC Omaha Nebraska</b>		Building Number <b>ONE</b>		Drawing Number <b>M2.1</b>	
Date <b>MAY 10, 2013</b>		Checked <b>MLK</b>		Drawn <b>LMB</b>	
CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)		Dwg. 12 of 17			





PLAN  
NORTH

 Department of  
Veterans Affairs

[illegible]

A. VERIFY/COORDINATE ALL RATINGS FOR EQUIPMENT. WHERE SUCH RATINGS ARE OTHER THAN THAT INDICATED ON MECHANICAL/ELECTRICAL COORDINATION SCHEDULE, PROVIDE DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS ACCORDINGLY, WHERE EQUIPMENT IS PROVIDED WITH RATINGS OTHER THAN THAT INDICATED, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ASSOCIATED COSTS FOR REVISIONS.

B. PROVIDE FRACTIONAL HORSEPOWER MOTORS WITH INTEGRAL OVERLOAD PROTECTION.

C. EQUIPMENT LISTED IN SCHEDULE MAY APPEAR IN NUMEROUS LOCATIONS. EQUIPMENT MARKS ARE DESIGNATED BY UNIQUE IDENTIFIERS ON THE PLANS, I.E., HP-1.1, HP-1.2. IN THESE INSTANCES, THE ELECTRICAL REQUIREMENTS DO NOT CHANGE FROM ONE MARK TO THE NEXT, ONLY THE UNIQUE IDENTIFIER CHANGES.

D. HORSEPOWER RATED SWITCHES (SH): FOR 120 V MOTORS LESS THAN 1/2 HP, PROVIDE FUSEHOLDUP WITH SWITCH, FUSED PER MANUFACTURER'S RECOMMENDATION AND NEC REQUIREMENTS. FOR 120 V MOTORS LESS THAN 1/2 HP OR 3/4 HP, PROVIDE HP RATED TOGGLE SWITCH (WHICH BRANCH CIRCUIT OVERCURRENT DEVICE MEETS NEC REQUIREMENTS FOR SHORT-CIRCUIT PROTECTION) OR FUSED SAFETY SWITCH.

E. INDUSTRIAL CONTROL PANELS AS DEFINED BY NEC ARTICLE 409, MOTOR CONTROLLERS, HERMETIC REFRIGERANT MOTOR COMPRESSORS AND EQUIPMENT SHALL BE MARKED WITH INFORMATION AS REQUIRED BY THE NATIONAL ELECTRICAL CODE (NEC), MARK IN ACCORDANCE WITH NEC ARTICLE 409.110 FOR INDUSTRIAL CONTROL PANELS, NEC ARTICLE 409.8 FOR CONTROLLERS AND NEC HERMETIC REFRIGERANT MOTOR COMPRESSORS AND EQUIPMENT. THE MARKED SHORT CIRCUIT CURRENT RATING (SCCR) SHALL BE NO LESS THAN THE VALUE INDICATED ABOVE.

RADIANT SNOW MELT SYSTEM SCHEDULE											
SERVICES	TYPE	PIPING DEPTH	DISTRIBUTION PIPING	AREA (FT2)	SUPPLY FLUID (°F)	RETURN FLUID (°F)	GPM	HEAD (FT)	REQUIRED HEAT (BTU/H)	MANUFACTURER	REMARKS
MAIN ENTRY DRIVE AND SIDEWALK - ZONE 1	PIPE EMBEDDED IN CONCRETE SLAB	2" (MIN.) - REMARK 5	(24) 250 FT CIRCUITS, 5/8" PEX-A O2 BARRIER, 6" SPACING	2,750	140	115	53	60	550,000	HEAT-LINK OR APPROVED EQUAL	1, 2, 3, 4, 5, 6
MAIN ENTRY DRIVE AND SIDEWALK - ZONE 2	PIPE EMBEDDED IN CONCRETE SLAB	2" (MIN.) - REMARK 5	(24) 250 FT CIRCUITS, 5/8" PEX-A O2 BARRIER, 6" SPACING	2,750	140	115	53	60	550,000	HEAT-LINK OR APPROVED EQUAL	1, 2, 3, 4, 5, 6

REMARKS:

- WORKING FLUID SHALL BE 50% PROPYLENE GLYCOL SOLUTION.
- PACKAGED SYSTEM SHALL BE A COMPLETE FACTORY ASSEMBLED SYSTEM PROVIDED BY TIGERFLOW OR APPROVED EQUAL INCLUDING HEAT EXCHANGER, PUMPS, EXPANSION TANK, GLYCOL FEEDER, STEAM CONTROL VALVE, SNOWLINE SENSOR, CONTROLS AND ASSOCIATED VALVES AND FITTINGS.
- MANIFOLDS, MANIFOLD BOXES, LOOP BALANCING/ISOLATION VALVES, AND TUBING SHALL BE SHIPPED LOOSE FOR FIELD INSTALLATION.
- SNOW MELT SYSTEM SHALL BE PROVIDED ONLY UNDER ALTERNATE #1.
- DRIVE PAVING THICKNESS IS 7 INCHES. SIDEWALK PAVING THICKNESS IS 4 INCHES.
- COORDINATE ZONING OF SNOW MELT SYSTEM WITH PHASING OF DRIVE REPLACEMENT.

PUMP SCHEDULE							
MARK	SERVES	TYPE	GPM	HEAD FT.	RPM	MANUFACTURER & MODEL NO.	REMARKS
P-2.1	SNOW MELT SYSTEM	VERTICAL INLINE	105	50	1,750	PATTERSON MODEL V2C7A-CC 2X2KT.5	1, 2, 3, 4, 5
P-2.2	SNOW MELT SYSTEM	VERTICAL INLINE	105	50	1,750	PATTERSON MODEL V2C7A-CC 2X2KT.5	1, 2, 3, 4, 5

1. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ELECTRICAL DATA.
2. PROVIDE WITH PREMIUM EFFICIENCY INVERTER-DUTY MOTOR.
3. PUMP SHALL BE MOUNTED ON FACTORY ASSEMBLED AND PACKAGED SKID BY TIGERFLOW OR APPROVED EQUAL.
4. PUMP WORKING FLUID SHALL BE 50% PROPYLENE GLYCOL.
5. PUMP SHALL BE PROVIDED ONLY UNDER ALTERNATE NO. 1.

SHELL AND TUBE HEAT EXCHANGER SCHEDULE										
MARK	SERVES	TYPE	WATER SIDE (TUBES)			STEAM SIDE (SHELL)		MANUFACTURER & MODEL NO.	REMARKS	
			GPM	E.W.T.	L.W.T.	P.D. (FT.)	PSIG			LB/HR
HX-2	SNOW MELT SYSTEM	STEAM TO HOT WATER	105	105° F	140° F	2.0	40	1293	TRUSH MODEL S8-36-2A	1, 2, 3

REMARKS:

- TUBESIDE WORKING FLUID SHALL BE 50% PROPYLENE GLYCOL.
- HEAT EXCHANGER SHALL BE MOUNTED ON FACTORY ASSEMBLED AND PACKAGED SKID BY TIGERFLOW OR APPROVED EQUAL.
- HEAT EXCHANGER SHALL BE PROVIDED ONLY UNDER ALTERNATE NO. 1.

[illegible]

1. ALL EQUIPMENT SHALL BE MOUNTED ON A FACTORY PRE-ASSEMBLED SKID MANUFACTURED BY TIGERFLOW OR APPROVED EQUAL.
2. FULL ACCEPTANCE VOLUME INDICATED. ASME CERTIFIED TANK.
3. SNOW MELT SYSTEM SHALL BE PROVIDED ONLY UNDER ALTERNATE NO. 1.

NOTE: ALL EQUIPMENT, CONNECTING PIPING, VALVES AND FITTINGS SHOWN SHALL BE FACTORY ASSEMBLED ON PRE-PACKAGED SKID.

CONCRETE SLAB

CONSTRUCTION JOINT

PEX TUBING

SUB SOIL

WIRE MESH

2" INSULATION

CONCRETE SLAB

SLEEVE

EXPANSION JOINT

SUB SOIL

WIRE MESH

2" INSULATION

Diagram illustrating the installation of PEX tubing for a hydronic floor assembly. The assembly consists of a 2" slab insulation layer, a wire tie grid above the insulation and below the hydronic piping, and foam staples (typical per manufacturer's recommendations) used to secure the PEX tubing. The PEX tubing is shown running horizontally across the assembly, with the wire tie grid positioned above it and the foam staples positioned below it. The diagram also indicates the grade level.


1. BASE MATERIAL MUST BE COMPACTED.
2. COVER TOP OF TUBING WITH A MINIMUM OF 2" OF CONCRETE.
3. SNOW MELT CONTRACTOR SHALL PROVIDE WIRE MESH TIE GRID, 2" RIGID INSULATION AND ALL OTHER ACCESSORIES REQUIRED OR RECOMMENDED BY THE SNOW MELT SYSTEM MANUFACTURER.

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CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)




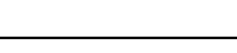

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Management



ELECTRICAL SYMBOLS LEGEND (AS APPLICABLE)			
SWITCHING			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH - LETTER INDICATES SWITCH LEG		MOMENTARY CONTACT SWITCH
	DOUBLE POLE SWITCH		KEY OPERATED SWITCH
	THREE-WAY SWITCH		PILOT LIGHT SWITCH
	FOUR-WAY SWITCH		TIMER SWITCH
	DIMMER SWITCH		OCCUPANCY SENSOR - WALL SWITCH
	HORSEPOWER RATED SWITCH		OCCUPANCY SENSOR - CEILING MOUNTED
	FUSES SWITCH		OCCUPANCY SENSOR - WALL MOUNTED
	THERMAL ELEMENT	DASHED LINE INDICATES GROUPS OF LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSOR(S).	
	LOW VOLTAGE SWITCH - NUMBER INDICATES TYPE		
LIGHTING			
	FLUORESCENT LUMINAIRE		WALL MOUNTED LUMINAIRE - NIGHT LIGHT
	FLUORESCENT LUMINAIRE - LAMPS SWITCHED SEPARATE		WALL MOUNTED LUMINAIRE - EMERGENCY
	FLUORESCENT LUMINAIRE WITH AUXILIARY LIGHT		EXIT SIGN
	FLUORESCENT LUMINAIRE - EMERGENCY		PHOTOCELL DAYLIGHT SENSOR
	FLUORESCENT LUMINAIRE - NIGHT LIGHT		EXTERIOR LUMINAIRE - POLE MOUNTED
	FLUORESCENT WALL MOUNTED LUMINAIRE		EXTERIOR LUMINAIRE - BOLLARD
	FLUORESCENT WALL MOUNTED LUMINAIRE - EMERGENCY		EXTERIOR LUMINAIRE - POLE MOUNTED
	FLUORESCENT WALL MOUNTED LUMINAIRE - NIGHT LIGHT		EXTERIOR LUMINAIRE - BOLLARD
	FLUORESCENT STRIP LUMINAIRE		FLOOD LIGHT LUMINAIRE
	FLUORESCENT STRIP LUMINAIRE - EMERGENCY		EMERGENCY BATTERY PACK
	FLUORESCENT STRIP LUMINAIRE - NIGHT LIGHT		EMERGENCY LUMINAIRE REMOTE HEADS
	LUMINAIRE		COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT
	LUMINAIRE - NIGHT LIGHT		TRACK LUMINAIRE
	LUMINAIRE - EMERGENCY		
POWER DEVICES			
	SINGLE RECEPTACLE		LIGHTING & APPLIANCE PANEL/BOARD
	DUPLEX RECEPTACLE		POWER DISTRIBUTION EQUIPMENT
	FOUR-FLEX RECEPTACLE - TWO DUPLEX RECEPTACLES		TRANSFORMER
	RANGE RECEPTACLE		ENCLOSED CIRCUIT BREAKER
	SPECIAL RECEPTACLE		CABINET (TYPE INDICATED)
	DUPLEX RECEPTACLE - GROUND-FAULT CIRCUIT-INTERRUPTER		MOTOR STARTER, LIGHTING CONTACTOR
	DUPLEX RECEPTACLE - ISOLATED GROUND		SAFETY SWITCH
	DUPLEX RECEPTACLE -		COMBINATION MOTOR STARTER & SAFETY SWITCH
	DUPLEX RECEPTACLE - GROUND-FAULT CIRCUIT-INTERRUPTER		MOTOR
	DUPLEX RECEPTACLE - ON APPLIANCE CIRCUIT		CORD DROP (J-BOX AT CEILING)
	DUPLEX RECEPTACLE - TAMPER-RESISTANT		CORD DROP (SPECIAL RECEPTACLE AT CEILING)
	DUPLEX RECEPTACLE - ARC-FAULT RATED		MULTI-OUTLET ASSEMBLY
	DUPLEX RECEPTACLE - MOUNTED IN MILLWORK		FLUSH FLOOR BOX
	DUPLEX RECEPTACLE - MOUNTED BELOW COUNTER		FLUSH PORE-THRU
	DUPLEX RECEPTACLE - CEILING MOUNTED		DAMPENER
	DUPLEX RECEPTACLE - BOTTOM HALF SWITCHED		SOLENOID
	SPLIT-WIRE RECEPTACLE		
	JUNCTION BOX		
RACEWAYS			
	HOME RUN TO PANEL		TELEPHONE CONDUIT
	UNSWITCHED LIGHTING CIRCUIT		CONDUIT UP
	MASTER SATELLITE FIXTURE CONNECTION		CONDUIT DOWN
	EMERGENCY CIRCUIT		CONDUIT SEAL
	NIGHT LIGHTING CIRCUIT		CABLE TRAY
	SOUND SYSTEM RACEWAY		CONDUIT SLEEVE (NUMBER INDICATES SIZE)
MISCELLANEOUS			
	EQUIPMENT IDENTIFICATION TAG		NON-FUSED
	DETAIL REFERENCE		WEATHER-PROOF
	SHEET REFERENCE		WIRE GUARD
	FIRE ALARM CONTROL PANEL		EXPLOSION PROOF
	FIRE ALARM ANNUNCIATOR PANEL		RATED AMPCITY/NO. POLES/FUSING RECOMMENDATION ENCL. NO.
	HAND-OFF-AUTO		PROJECTOR INPUT STATION - LETTER INDICATES TYPE
	CIRCUIT		PROJECTOR CONTROL STATION
	PARTIAL CIRCUIT		LIGHT LINKWORK - EXISTING OR DEMOLITION
			DARK LINKWORK - NEW
COMMUNICATIONS			
	TELEPHONE CABINET		CLOCK HANGER OUTLET
	TELEPHONE OUTLET - WALL MOUNTED		CLOCK - WALL MOUNTED
	TELEPHONE OUTLET BOX		CLOCK - CEILING MOUNTED (DOUBLE FACE)
	DATA OUTLET BOX		CLASSROOM CLOCK & SPEAKER
	PHONE OUTLET BOX - CEILING MOUNTED		PROGRAM BELL
	DATA OUTLET BOX - CEILING MOUNTED		INTERCOM CALL SWITCH
	COMBINATION TELEPHONE/DATA OUTLET BOX - ONE JACK EACH		

## GENERAL ELECTRICAL NOTES

- B. ALL WIRING SHALL BE INSTALLED IN CONTINUOUS RACEWAY.
- C. ALL CONDUITS IN NEW WALLS, EXISTING STUD WALLS, OR IN AREAS WITH SUSPENDED CEILINGS SHALL BE INSTALLED CONCEALED.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILINGS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF ELECTRICAL SYSTEM.
- E. LABELING FOR PANELBOARD DIRECTORY, FIRE ALARM PANEL, PROGRAMMING, ETC. SHALL USE ROOM NUMBERS ASSIGNED BY OWNER AND NOT ROOM NUMBERS LISTED ON DRAWINGS. LABELS ON PANELBOARD DIRECTORY SHALL BE PLACED AT THE BOTTOM OF LOAD SUCH AS LIGHTS, RECEPTACLES, MECH. UNIT LOCATIONS, ETC.
- F. MULTIWIRE BRANCH CIRCUITS AS DEFINED BY THE NATIONAL ELECTRICAL CODE (CIRCUITS WITH COMMON NEUTRAL) SHALL NOT BE USED. EXCEPTION: WHERE AN EQUIPMENT MANUFACTURER REQUIRES A MULTIWIRE BRANCH CIRCUIT FOR THE OPERATION OF THE EQUIPMENT AND WHERE ALL UNGROUNDED CONDUCTORS OF THAT CIRCUIT ARE OPENED SIMULTANEOUSLY BY THE BRANCH CIRCUIT OVERCURRENT DEVICE.
- G. A CABLE OR RACEWAY TYPE WIRING METHOD, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AT LEAST 18 INCHES ABOVE THE UNDERSIDE SURFACE OF THE CABLE OR RACEWAY IS NOT LESS THAN 6 INCHES FROM THE NEAREST SURFACE OF THE ROOF DECKING. EXCEPTION: RIGID METAL CONDUIT USED TO INTERCONNECT METAL CONDUIT SHALL NOT BE REQUIRED TO MAINTAIN THIS CLEARANCE.
- H. REFER TO MECHANICAL/ELECTRICAL COORDINATION SCHEDULE SHEET M3.1 FOR ADDITIONAL REQUIREMENTS FOR DISCONNECTS, MOTOR STARTERS, ETC.

		ARCHITECT/ENGINEERS:			Drawing Title	Project Number	Project Title	Building Number	Office of Construction and Facilities Management	
			 Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorn, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193	 FARRIS ENGINEERING OMAHA   LINCOLN   DES MOINES   COLORADO SPRINGS farris-usa.com	 InfraStructure, LLC ENGINEERING CONSULTING GROUP	ELECTRICAL SYMBOLS AND GENERAL NOTES	UPGRADE FORCE PROTECTION FRONT ENTRANCE	ONE		
						Location	Drawing Number			
						VAMC Omaha Nebraska	E0.1	Dwg. 15 of 17	 Department of Veterans Affairs	
Revisions:	Date					CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)	Date	Checked		Drawn
							MAY 10, 2013	RJH	SPG	



SEE 'GENERAL ELECTRICAL NOTES',  
SHEET E0.1, FOR ADDITIONAL  
ELECTRICAL REQUIREMENTS

ELECTRICAL DEMOLITION KEYNOTES: (◇)

1. ARROW INDICATES DIRECTION OF SHIELDING. 'OPEN' SIDE OF BOLLARD TO FACE SIDEWALK.
2. RELAMP EXISTING DOWNLIGHT WITH PHILIPS 100W WHITE SON HIGH PRESSURE SODIUM LAMP.
3. NUMBER INDICATES THE MINIMUM WIRE SIZE FOR CIRCUIT.
4. CONNECT TO EXISTING CIRCUIT RP1-1.
5. BOLLARDS HAVE EMBEDDED SECURITY CORE FOR FORCE PROTECTION. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MOUNTING CONDITIONS.

LUMINAIRE SCHEDULE

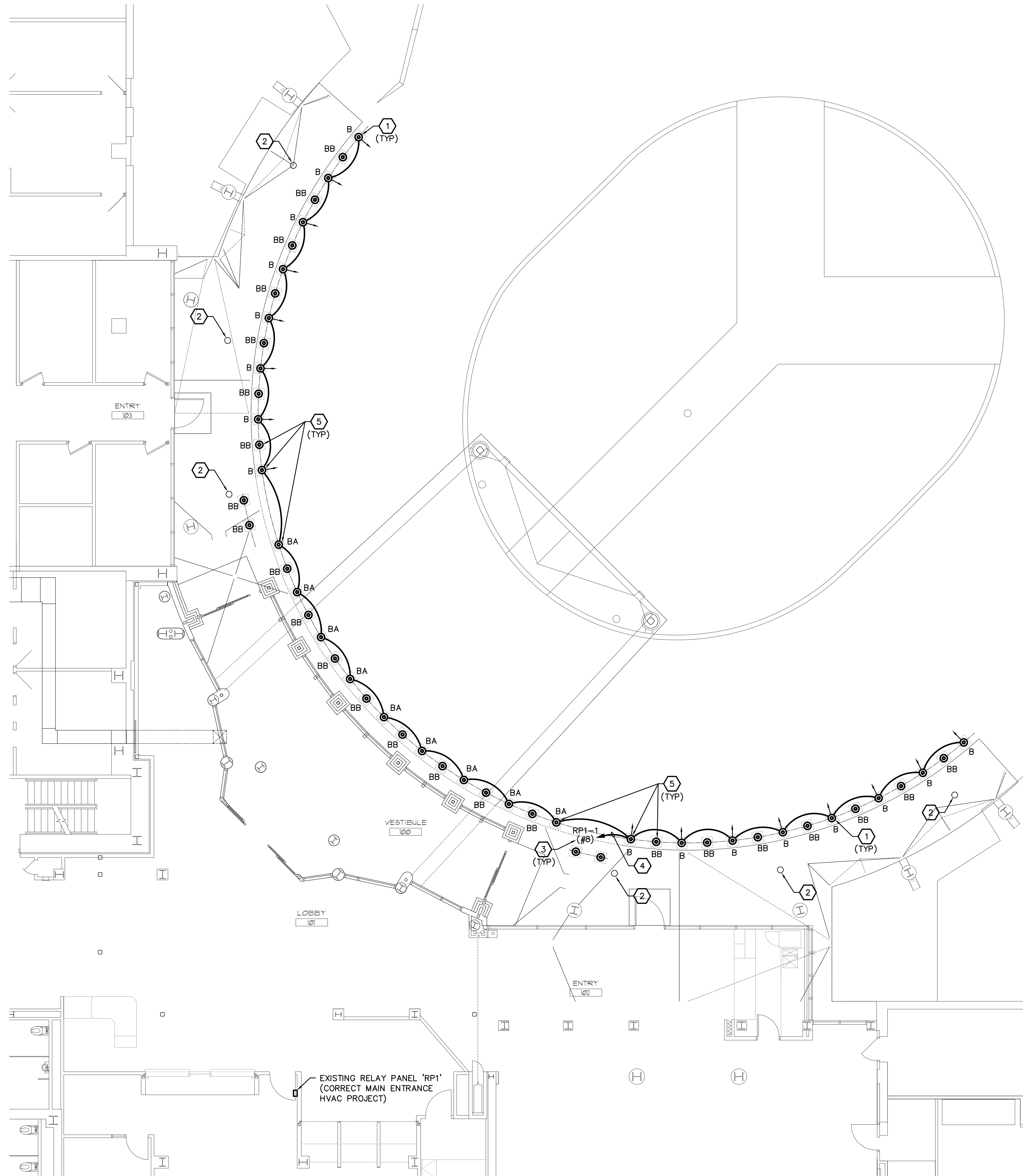
MARK	DESCRIPTION	MANUFACTURER	SERIES	CATALOG NO.	QTY	LAMP	FINISH	MOUNTING	INPUT WATTS	VOLTS	ACCEPTABLE MANUFACTURERS	REMARKS
						TYPE						
B	ILLUMINATED STAINLESS STEEL BOLLARD WITH EMBEDDED SECURITY CORE AND 180° SCAPE SHIELD.	FORMS & SURFACES	LIGHT COLUMN SERIES 600	LCO-SEC-604 EMBEDDED SECURITY CORE 180° PERFORATED SHIELD (SCAPE)	2	REMARK 3	REMARK 2	BOLLARD	52 W	120 V	-	1.5
BA	ILLUMINATED STAINLESS STEEL BOLLARD WITH EMBEDDED SECURITY CORE AND 360° SCAPE SHIELD.	FORMS & SURFACES	LIGHT COLUMN SERIES 600	LCO-SEC-604 EMBEDDED SECURITY CORE 360° PERFORATED SHIELD (SCAPE)	2	REMARK 3	REMARK 2	BOLLARD	52 W	120 V	-	1.5
BB	UNLIT STAINLESS STEEL BOLLARD WITH EMBEDDED SECURITY CORE AND 360° SCAPE SHIELD.	FORMS & SURFACES	LIGHT COLUMN SERIES 600	REMARK 4	-	-	REMARK 2	BOLLARD	-	-	-	5

LUMINAIRE SCHEDULE REQUIREMENTS:

- A. SUBMIT SHOP DRAWINGS FOR EACH LUMINAIRE, BALLAST, AND LAMP TYPE USED ON PROJECT.
- B. CONTRACTOR SHALL FIELD VERIFY VOLTAGE OF ALL LUMINAIRES PRIOR TO ORDERING.
- C. BALLASTS FOR LINEAR FLUORESCENT T5 & T5HO LAMPS SHALL BE GE ULTRASTART SERIES (OR EQUAL BY ADVANCE OPTANIUM SERIES). BALLAST CHARACTERISTICS SHALL BE: PROGRAMMED START, OPERATING VOLTAGE RANGE OF 120-277V ±10%, BALLAST FACTOR GREATER THAN 0.99 (U.N.O.), THD OF 10% OR LESS, PF GREATER THAN 0.95, AND A FIVE YEAR WRITTEN REPLACEMENT WARRANTY FROM DATE OF MANUFACTURE.
- D. PHILIPS, OSRAM/SYLVANIA, G.E. AND VENTURE ARE ACCEPTABLE LAMP MANUFACTURERS.
- E. ALL FLUORESCENT LAMPS SHALL BE LOW MERCURY TCPL COMPLIANT TYPE.
- G. PROVIDE FACTORY INSTALLED INTEGRAL DISCONNECTING MEANS FOR FLUORESCENT LIGHT LUMINAIRES PER 2011 NEC ARTICLE 410.130.(G). NOTE THAT EXCEPTION NO. 4 AND EXCEPTION NO. 5 WILL NOT BE ACCEPTED.

LUMINAIRE SCHEDULE REMARKS:

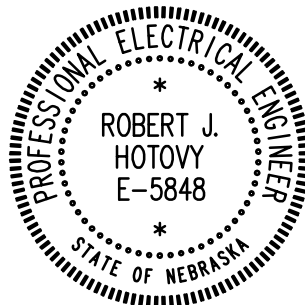
1. PROVIDE COLD WEATHER BALLAST RATED FOR NO HIGHER THAN -15°F MINIMUM STARTING TEMPERATURE.
2. CUSTOM RAL POWDERCOAT COLOR TO BE SELECTED BY ARCHITECT. SHIELDING FINISH TO MATCH HOUSING.
3. PROVIDE F24T5HO/830 3000K LAMP WITH AMALGAM TECHNOLOGY FOR LOW STARTING TEMPERATURES.
4. PROVIDE UNLIT VERSION OF LCO-SEC-604 BOLLARD WITH EMBEDDED SECURITY CORE AND 360° PERFORATED SHIELD (SCAPE).
5. BOLLARDS HAVE EMBEDDED SECURITY CORE FOR FORCE PROTECTION. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MOUNTING DETAILS.



**PARTIAL FIRST FLOOR LIGHTING PLAN**  
SCALE: 1/8" INCH = 1' FOOT  
12' 0" 5' 10' 15'



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InfraStructure, LLC  
ENGINEERING CONSULTING GROUP

Drawing Title  
PARTIAL FIRST FLOOR LIGHTING PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title  
UPGRADE FORCE PROTECTION  
FRONT ENTRANCE

Location  
VAMC Omaha Nebraska

Date  
MAY 10, 2013

Checked  
RJH

Drawn  
SPG

Project Number  
636-13-126

Building Number  
ONE

Drawing Number  
E1.1

Dwg. 16 of 17

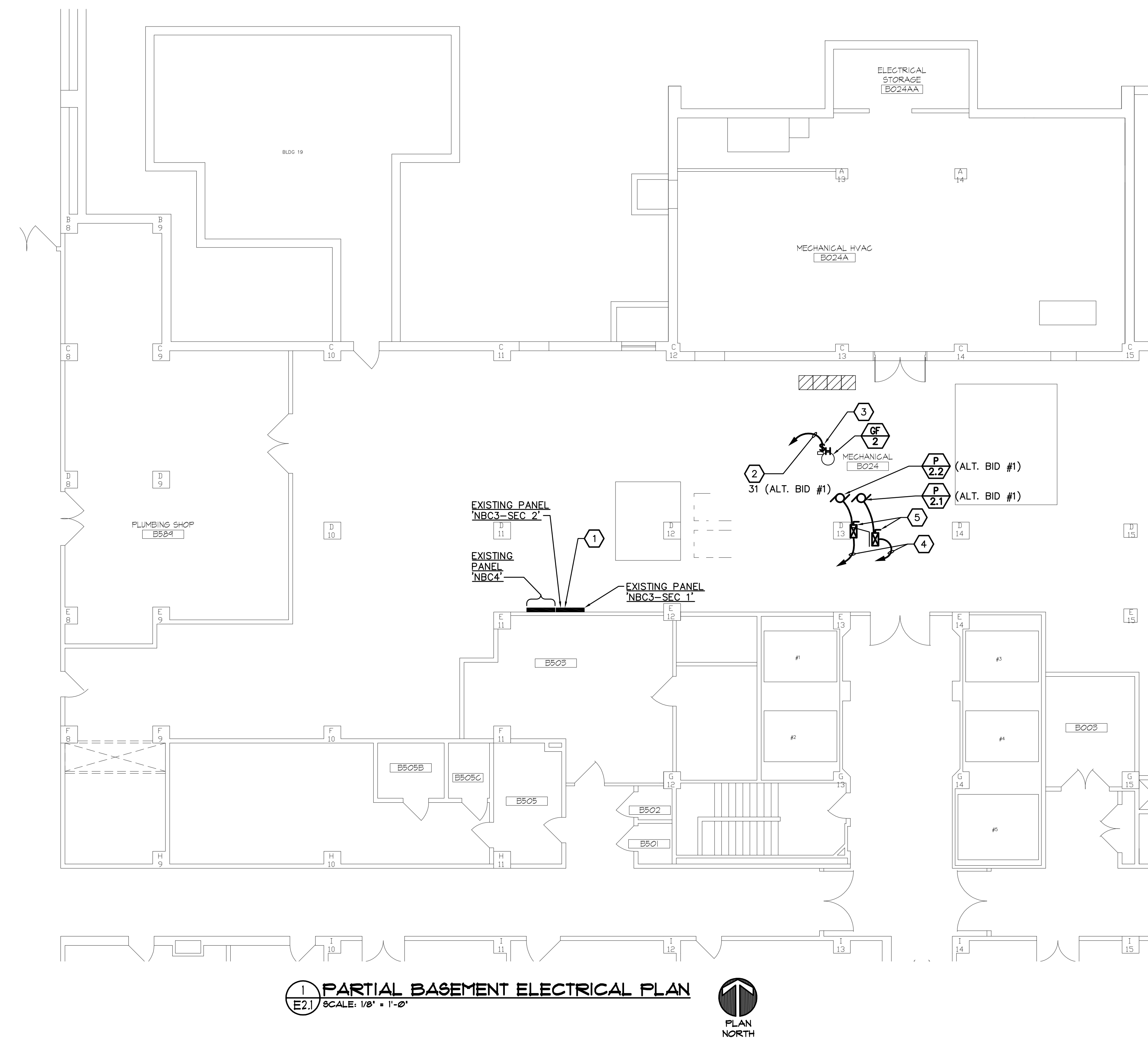
Office of  
Construction  
and Facilities  
Management



SEE 'GENERAL ELECTRICAL NOTES',  
SHEET E0.1, FOR ADDITIONAL  
ELECTRICAL REQUIREMENTS

ELECTRICAL KEYNOTES: (⬡)

- ① PROVIDE 2 NO AMP, 3 POLE CIRCUIT BREAKERS COMPATIBLE WITH EXISTING PANEL (GE) AND INSTALL IN AVAILABLE SPACE IN EXISTING PANEL "NB3C-SEC 2". NEW CIRCUIT BREAKER AIC RATING SHALL MATCH EXISTING. THIS WORK IS PART OF ALTERNATE BID NO. 1.
- ② EXTEND NEW CIRCUIT TO EXISTING PANEL "NB3C-SEC 2" AND CONNECT TO EXISTING SPARE 20 AMP, SINGLE POLE CIRCUIT BREAKER AT CIRCUIT POSITION INDICATED.
- ③ MOUNT SWITCH TO STRUCTURAL FRAME OF GLYCOL FEED SYSTEM EQUIPMENT. CONNECT EQUIPMENT CONTROL PANEL. PROVIDE CONNECTION FROM CONTROL PANEL TO PUMP MOTOR PER MANUFACTURER'S RECOMMENDATIONS.
- ④ EXTEND NEW CIRCUIT TO EXISTING PANEL "NB3C-SEC 2" AND CONNECT TO ONE OF TWO NEW 20 AMP, 3 POLE CIRCUIT BREAKERS INSTALLED AS PART OF KEYNOTE 1. THIS WORK IS PART OF ALTERNATE BID NO. 1.
- ⑤ MOUNT COMBINATION MOTOR STARTER AND SAFETY SWITCH TO COLUMN, ONE ABOVE ANOTHER, WITH TOP OF UPPER STARTER/SWITCH NO HIGHER THAN 6'-0" ABOVE FINISHED FLOOR.

[illegible]